

**PEACE HOUSE**  
**RESEARCH AND**  
**INNOVATION CENTRE**  
**OF EXCELLENCE**

GBOKO BENUE STATE - NIGERIA



THE MOUNTAIN CLIMBERS - CLASS OF 2025

**CUTTING-EDGE**  
**Researchers & INNOVATORS**  
**GBILE AKANNI**

**FAREWELL CHARGE** - DENNIS TSERGA D.    **THE MOUNTAIN CLIMBERS** - SEUN OLUFOLAJI  
**FEAR NOT** - SEGUN GBOLAGADE    **STANDING OUT FOR GOD** - NONTLE GAMA

**YOUTH EMPOWERMENT AND SKILLS ACQUISITION** - HIS ROYAL MAJESTY, AGABAIDU ELAIGWU ODOGBO  
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**ENGINEERING RESEARCH AND INNOVATION: A BEDROCK FOR INDUSTRIALIZATION, EMPLOYMENT AND NATIONAL ECONOMIC DEVELOPMENT** - ENGR PROF. SAM BABA ONOJA



## NATIONAL ANTHEM

Nigeria, we hail thee,  
Our own dear native land,  
Though tribe and tongue may  
differ,  
In brotherhood we stand  
Nigerians all,  
And proud to serve our sovereign  
Motherland.

II

Our flag shall be a symbol  
That truth and justice reign,  
In peace or battle honoured,  
And this we count as gain,  
To hand on to our children  
A banner without stain.

III

O God of all creation,  
Grant this our one request:  
Help us to build a nation  
Where no man is oppressed,  
And so with peace and plenty  
Nigeria may be blessed.

I pledge to Nigeria, my country  
To be faithful, loyal and honest  
To serve Nigeria with all my  
strength  
To defend her unity and uphold  
her honour and glory  
So help me, God.







## PEACE HOUSE

### RESEARCH AND INNOVATION CENTER OF EXCELLENCE

#### **Our Vision**

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"Raising a new generation of Christ-centered visionary leaders who will positively transform Africa and beyond through indigenous innovation, cutting-edge research, and strategic application of science and technology."

#### **Our Mission**

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To Inspire, Train And Equip Young People,  
In The New Creation Life, To Create,  
Design And Develop Disruptive, Locally-relevant,  
Cost Effective Technologies That Address Critical Challenges In  
Health, Agriculture, Education, Energy, And Transportation  
Through Multidisciplinary Scientific Research And  
Collaboration."

#### **Our Motto**

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*"...not for price, nor reward..."*  
*Isaiah 45:13*



# CUTTING- EDGE RESEARCHERS & INNOVATORS

Gbile Akanni

## Introduction

I praise the Lord for another set of God's battle axe are set to take the battle to the gates of the enemy, and they are ready to be launched and shot forth. Your trajectory is being prepared and the range of these projectiles are being set by God as He has also prepared the path for you to walk into all the works He has prepared for you to walk in them. We have come to this convocation with the deep sense of divine responsibility to pray and set you apart for the work unto which He has called you.

God has kept you here in the past two years, in an intensive incubation, as it were in the cave of 'Adullam'. You have been so stretched, as to develop and increase the elasticity of your capacity to conceive, conceptualise, concretise, contextualise and create things out of nothing to solve perennial problems in the community and in the larger society for the kingdom and glory of God.

Our first strategy as it is the priority of heaven is to see you walk out of the human nature (the self-life) which is corrupt through and through, and to have the new creation life, even Christ, living in you. It is Christ living in you, Christ at work in you and Christ flowing through you into all the branches of His work on earth that is the hope, the basis and the rationale of the glory that shall break forth in your lives, and by your hands in all you do henceforth.

We have responded to the Lord in setting up this Research and Innovation centre, to raise ambassadors for Christ, who He can take to the gates and with them rule in the midst of His enemies- be it at the gate of Medicine, Engineering, Power and Energy, Research and Academics or ICT business. We are doing all these, so that the kingdom of our Lord Jesus Christ may be established on the earth, and that through these researches and innovation, you might bring excellence to bear upon the scientific and technological exploits that God has kept in store for those who love Him. It is for you to stand tall at the gates, ruling for Him in the midst of His enemies.

*In my charge to the first set, I reflected that...*

***Great researchers would not leave the pit of their mines or the laboratories of their inventions to get ordinary appointments. They would not remain in the brain box of things. Their joy is to see the result of their researches bring blessings to men and solve real problems on the earth. Their joy is more valuable to them than their salaries. We send you forth as a missionary into this avenue of kingdom service, not just for money. No one must devalue, despise, demean, disregard and discredit you, as to buy you cheaply off your ground. The kingdom of God must find expression through the things that God has created with clear intentional purposes and we must subdue the earth and make His enemies His footstool even in areas of science, technology and creative arts. For this, have you been raised! This is why you were in PRICE to win the PRIZE for His glory.***

And this is still the fulcrum of my charge to you today also. You were brought into PRICE without any price being charged on you, so that you can be focused on winning the Prize... There is a prize, the prize of His high calling, you must run to win. Though worldly goods would be cast at your feet, when the world sees the value you are bringing, their goods is not the prize to win... You are raised for God to do exploits and to set the kingdom of his enemy on fire as the three hundred foxes of Samson did to the field of the Philistines; and as the three hundred men of the Gideon's army dislodged the Midianites in their multitude. You are raised as the young David who with a smooth stone in a catapult brought down the head of Goliath, the giant of Gath and proclaimed victory for the hosts of Israel. You have been trained to use local materials to create innovations through scientific research, to bring verifiable and veritable solutions to human challenges all around us. This is the prize you been raised and launched out to go and bring home



to the Kingdom of God.

Hear the word of the Lord concerning you particularly since you came into our hands and for this we have prayed continually for you...

**You are my battle axe and weapons of war”,**

*“Thou art my battle axe and weapons of war: for with thee will I break in pieces the nations, and with thee will I destroy kingdoms; and with thee will I break in pieces the horse and his rider; and with thee will I break in pieces the chariot and his rider; with thee also will I break in pieces man and woman; and with thee will I break in pieces old and young; and with thee will I break in pieces the young man and the maid; I will also break in pieces with thee the shepherd and his flock; and with thee will I break in pieces the husbandman and his yoke of oxen; and with thee will I break in pieces captains and rulers.”*

*Jeremiah 51:20-23 KJV*

“You are my battle axe and weapons of war”, says the Lord... He is the Mighty Warrior, great in battle. Jehovah is His name. What a privilege it is for Him to pick you as His battle axe and with you in His hand, He goes into battle at the gates against His enemies.

I want you to pay very close attention to the tenor of His word to you in this passage. The worker, the warrior and the one who breaks in pieces is the Lord, and you hear Him say repeatedly, “I will break in pieces...”; “I will destroy kingdoms”; “I will break in pieces...”. He is able and abundantly so, to bring down, and throw down, all that has stood for years as mountains and obstacles to His purpose on earth. He has all it takes to execute His counsel, no matter the cost and no matter who is involved. He is the great God and the whole earth is but His mere footstool. Nothing is difficult for Him to do or bring forth.

But what is amazing is this repeated word, “With you, I will...”; “With you, I will...”. And this is why you have been recruited for this intensive training. This is the purpose that has been purposed in God’s heart while you were being formed in your mother’s womb. You were formed to be His weapon of war in this end time. You were being prepared to be His battle axe, and the gates in which He intends to use you to dislodge His enemy has to do with your professional skills.

The enemy has occupied those territories unchallenged for so long, to the extent that we have been made to think it is not for the Church, men and women from Zion to venture. And those who even went in had to veil their identity as if Christ is not the Lord over that space. They seemed to have set up their kingdoms and placed therein principalities who boast night and day, *“This has been delivered to my hands and I give to whosoever I will. To have a bite here, you must bow the knee”*. Though we are the salt of the earth and the light of the world, we have accepted to be the salt in the ‘sachet’ and the light under the ‘bushel’. It is time to tear the sachets for the salt to be sprinkled into the decaying earth. It is time to break the pitchers and the bushels for your light to shine and dispel the darkness that is engrossing that area of your calling. It is time to go to the gates to take over and recover all the enemy sits upon.

The three men in David’s army broke through the garrison of the Philistines in Bethlehem to fetch the water from the well at great jeopardy to their lives. They came back victorious! Our King is thirsty to receive your exploits. He is waiting for you to overthrow and bring forth something fresh to quench His thirsts. God has declared war against His enemies, but you are His battle axe and weapons of war. It is with you, He will break all that must be broken and shattered in pieces at the gates.

All we have sought God to do in all your training here is for you to become a vessel in His hand. God does not use anyone who has not come voluntarily and willingly into His hands in concerted discipleship. Only the arrows in His quiver are useful and can be used in the day of battle. Your intentional and intensive discipleship exposure in the past two years is to situate you perpetually in His hand and for you to cease being a truant and a free ranger with potentials wasted. We watched you develop your personal devotions, prayer life and ability to call on the Lord for on-the-spot inspiration in the middle of a laboratory process or project design and construction. It is time to engage and call them forth as take your journey from here.

The development of your research capacity, entrepreneurial exposures and the projects you were challenged with is to train your hands for war and your fingers to fight. *“Blessed be the Lord my Rock, Who trains my hands for war, And my fingers for battle—”* *Psalms 144:1 NKJV*

You were trained to leap over a wall that could have been hurdles unto you and to see living by faith as the way by which the righteous live and overcome the world and its systems. Faith in Christ and in His word will make you overcomers in research and innovations. Faith in Christ and total reliance on the Spirit will open doors into mysteries unto you and you will be head only and not tails, you will be above only and not beneath. We trained you not to be a servant of mammon and its appetite. You learned to live above money and you have seen God meet your

personal needs and the corporate needs for your training and your feeding and projects in these two years. This is not to be left as you drive out of this camp. It must become your life-approach to every situation that comes your way.

Look at the testimony of another battle axe in God's hands and from there, do take your bearing:

"It is God who arms me with strength, And makes my way perfect. He makes my feet like the feet of deer, And sets me on my high places. He teaches my hands to make war, So that my arms can bend a bow of bronze. You have also given me the shield of Your salvation; Your right hand has held me up, Your gentleness has made me great. You enlarged my path under me, So my feet did not slip. I have pursued my enemies and overtaken them; Neither did I turn back again till they were destroyed. I have wounded them, So that they could not rise; They have fallen under my feet. For You have armed me with strength for the battle; You have subdued under me those who rose up against me. You have also given me the necks of my enemies, So that I destroyed those who hated me." Psalms 18:32-40 NKJV

Let me put the issues as bullet points for you. I know this will be your own testimonies as well in times to come. It is Him at work in you that is the secret of all the exploits you will record as you take your journey into life from here.

### **The preparation, equipping and training**

- l It is God who arms me with strength, And makes my way perfect.*
- l He makes my feet like the feet of deer, And sets me on my high places.*
- l He teaches my hands to make war, So that my arms can bend a bow of bronze.*
- l You have also given me the shield of Your salvation; Your right hand has held me up, Your gentleness has made me great.*
- l You enlarged my path under me, So my feet did not slip.*

### **The Pursuit and Result**

- l I have pursued my enemies and overtaken them; Neither did I turn back again till they were destroyed.*
- l I have wounded them, So that they could not rise; They have fallen under my feet.*
- l For You have armed me with strength for the battle;*
- l You have subdued under me those who rose up against me.*
- l You have also given me the necks of my enemies, So that I destroyed those who hated me."*

So shall it be unto each one of you. Through the Lord God, our Father, you shall do valiantly in Jesus name. You are a man or a woman commissioned unto a divine assignment. You cannot be distracted with the civilian affairs all around you. Keep a single eye on the Lord and on your assignment. Your consignment is commensurate with your assignment and your allocation will meet you at the location of your posting. Blow His trumpet everywhere you go. Charge the everlasting doors, ancient gates to lift up their heads as the King of glory comes in riding on your back. Lift up prayer uproars against the gates...

*"Lift up your heads, O you gates! And be lifted up, you everlasting doors! And the King of glory shall come in. Who is this King of glory?"*

*The Lord strong and mighty, The Lord mighty in battle.*

*Lift up your heads, O you gates! Lift up, you everlasting doors! And the King of glory shall come in. Who is this King of glory?"*

*The Lord of hosts, He is the King of glory. Selah"*  
*Psalms 24:7-10 NKJV*

### **Finally,**

Keep on your knees at His feet long enough regularly, so you can stand strong and long on feet. Keep the fire burning, pack out burnt ashes, to keep your fire fresh. Keep a single eye on your goals, so your entire body will be full of light, having no part dark. Keep your spirit fervent, gaining fresh momentum every step of the way. Keep in fellowship with the PRICE family as you are growing to be a brand of His soldiers in the coming days, taking positions in different parts on the planet Earth. Keep your ears attuned to the final trumpet if He comes before we see you again. Plan to meet up with us in the air. God bless you.





# FAREWELL CHARGE

PRICE SET 3 GRADUATION/COMMISSIONING

Engr. TSERGA Dennis D.

**C**alvary greetings to you all in the name of our Lord and Saviour Jesus Christ, and on behalf of the Governing Board and Council of this divine Institution.

It has been a divine honour and privilege for us all to prayerfully guide you through the past two years of your training in PRICE.

We have continually looked to Heaven for every needed resource to equip your heart, head and hands, for innovative fruitfulness in your days ahead. We have prayed, and shall continue to pray, for God's equipping of your lives to enable you to excel in everything that He has placed on your path in life as His shining lights in your generation.

We are confident that every one of you will experience breakthroughs that surpass your wildest imaginations, as you leave here and continue to follow Jesus.

Your training in PRICE was not an easy one. We unapologetically passed unto you the principles we also received from the LORD that have made us in Him. We taught nothing other than the same principles which we have ourselves learnt in Christ, proven in our own lives and are living by.

The Christian lifestyle we taught you, and trained you to live throughout the duration of your stay in our midst is not just relevant during your training in PRICE. It is the victorious and glorious way to live all the days of your lives. What you learnt in PRICE is for the entire duration of your lives.

What you learnt included the principle of living by faith regarding all that concerns your lives, homes, professions and godliness. You learnt to look to Him in faith for the supply of your personal daily needs, for divine wisdom and revelation for research and innovation and for His inspiration and unction to order all your ways aright.

You also learnt that sole objective of God for every life is to become like Jesus. You therefore accepted the yoke of Christ upon you and began to learn of Him in your quest to grow to become like him in all things.

Each of your experiences in PRICE is only an essential "startup" for your lives. God expects you to build upon it daily and to continue to grow in your personal knowledge of Him, and in the understanding and experience of this lifestyle of His Kingdom.

*Better is a dry morsel with quietness, than a house full of feasting with strife. A wise servant will rule over a son who causes shame, and will share an inheritance among the brothers. **The refining pot is for silver and the furnace for gold, But the LORD tests the hearts.** (Pro 17:1-3, NKJV)*

*As iron sharpens iron, so a man sharpens the countenance of his friend. Whoever keeps the fig tree will eat its fruit; so he who waits on his master will be honoured. As in water face reflects face, **so a man's heart reveals the man.** Hell and destruction are never full; so the eyes of man are never satisfied. **The refining pot is for silver and the furnace for gold, and a man is valued by what others say of him.** (Pro 27:17-21,*

NKJV)

Do not despise “the fining pot” and “the furnace” that was divinely arranged for you in PRICE. It is God’s effective and unchangeable method to refine lives and purify hearts. Unless you endure His processes of purging, you cannot be made into a vessel unto honour for Him (2Tim 2:21). PRICE was only a “startup” to correctly dispose your heart for all the “fining pots” and “furnaces” that God may arrange to further refine and purify your life in the years ahead. It is written in Hebrews 12:1-17 (NIV), inter alia:

*And have you completely forgotten this word of encouragement that addresses you as a father addresses his son? It says, "My son, do not make light of the Lord's discipline, and do not lose heart when he rebukes you, because the Lord disciplines the one he loves, and he chastens everyone he accepts as his son." Endure hardship as discipline; God is treating you as his children. For what children are not disciplined by their father? If you are not disciplined—and everyone undergoes discipline—then you are not legitimate, not true sons and daughters at all. Moreover, we have all had human fathers who disciplined us and we respected them for it. How much more should we submit to the Father of spirits and live! They disciplined us for a little while as they thought best; but God disciplines us for our good, in order that we may share in his holiness. No discipline seems pleasant at the time, but painful. Later on, however, it produces a harvest of righteousness and peace for those who have been trained by it. Therefore, strengthen your feeble arms and weak knees. "Make level paths for your feet," so that the lame may not be disabled, but rather healed. (Heb 12:5-13)*

Meditate on these things; give yourselves entirely to them, and your excellence will soon be evident to all. Take heed to yourselves and to all you learnt in PRICE. Continue in them, for in doing this you will prosper your own lives and those of all who come in contact with you hereafter.

May the grace, peace and mercy of our Lord and Saviour Jesus Christ abide upon your lives and may the Presence of the Most High accompany you all the days of your lives, in the name of our Lord Jesus!  
Amen.

Your brother,  
Engr. TSERGA Dennis D.  
Chairman, PRICE Governing Council.





# THE MOUNTAIN CLIMBERS

SEUN OLUFOLAJI

## Opening Gratitude

It is with deep honour and gratitude to the Almighty, that I stand before you on this historic occasion the graduation of the third set of interns of PRICE, the Mountain Climbers.

Today is more than a ceremony; it is a testimony of God's faithfulness, of resilience, and of what happens when lives are yielded to His vision, just as found in Mark 3:13 '**And He went up on the mountain and called to Him those He Himself wanted, and they came to Him**'. We rejoice not because the journey was smooth, but because through every challenge and uncertainty, the Lord bade you come, you obeyed and he has proven Himself faithful in your lives. Truly, like Samuel of old, we can raise our Ebenezer: "Thus far has the Lord helped us."

We are grateful to God for these young men and women who sit here as graduates each a story of perseverance, sacrifice, growth, and grace. They are not just graduates of PRICE; they are living proofs that when God invests in a life, it cannot remain the same.

We thank the disciplers, faculty, and staff who laboured often unseen to nurture these interns. Your efforts are recorded in Heaven. We also appreciate the parents and families who trusted us with their sons and daughters; your prayers and support have been part of this journey.

Above all, I return glory to God who gave the vision of PRICE, sustained it against all odds, and has now brought forth another harvest. Looking back at the battles fought and the many challenges that came our way, I boldly declare: we stand here only by the grace of God.

## About PRICE

PRICE was not born as another research centre. It was birthed as a vision a response to God's desire for a generation that will not just learn, but lead; not just consume, but create; not just import, but produce solutions indigenously.

Our vision is clear: to raise Christ-centered visionary leaders who will transform Africa and beyond through indigenous innovation, cutting-edge research, and strategic application of science and technology. We see beyond the limitations of our continent to invest in men and women who will chart a new course. It is not about raising graduates but reformers, solution-bearers, and nation-builders rooted in Christ and skilled for transformation.

Our mission flows from this vision: to inspire, train, and equip young people in the New Creation life empowering them to create disruptive, locally relevant, and cost-effective technologies for real needs in health, agriculture, education, energy, and transportation. We believe God has endowed this generation with wisdom and grace to turn adversity into platforms for innovation.

We aim not only to produce intelligent professionals but men and women of character, conviction, and creativity rooted in Christ.

Thus, PRICE is an incubator of ideas, a hub of indigenous innovation, and a platform where discipleship births creativity. Our mandate is not merely to expose interns to technology but to train them to think Kingdom, act responsibly, and pioneer boldly.

Everything we do rests on three anchors:

**Patents** — because we must create, not copy.

**Publications** — because knowledge must be shared and extended.

**Productions** — because ideas must touch lives.

This ensures our work goes beyond journals into prototypes, solutions, and start-ups that serve nations.

Ultimately, PRICE is more than an institution; it is a prophetic platform God's tool for shaping Christ-like innovators who will design not just technologies but societies, reimagining Africa's future under God.

### **Expanding Frontiers: Global Engagements and Strategic Partnerships**

This year, our steps reached beyond local mountains to global frontiers. In China, we received specialized training at a leading research institute in the area of renewable energy (Small Hydro Power). It was indeed an eye opener. We also had the opportunity to engage with **Unitree Robotics** the leading Chinese companies in the area of humanoid and doglike robotics. We were able to experience firsthand the future of robotics and AI. We also hosted an **international conference** here at our facility in collaboration with the **International Center for Mathematical Modelling and Data Analytics (ICAMMDA)**, fostering dialogue across nations and disciplines. A significant milestone is the hatching of an **MOU with the Hangzhou Regional Center (Asia Pacific)**, opening doors for collaboration in research, training, and technology transfer.

These engagements are more than travels and meetings they are bridges. Bridges that connect our vision with global knowledge, positioning us as a hub where indigenous ingenuity meets international expertise, shaping solutions for Africa's tomorrow. However we must not fail to highlight that we observed that China is very much in need of the gospel. There is an emptiness we could touch despite all the technological progress they have made.

### **The Journey of the Mountain Climbers**

Dear graduates, you are not called Mountain Climbers by chance. The name is prophetic, proven in your journey. Mountains are not scaled by wishes but by those willing to sweat, endure, and press upward when others choose ease. Your two years at PRICE have been exactly that a climb.

From the first day, you were not pampered; you were stretched. Here, mediocrity has no place. You were trained to move from idea to execution, to turn thought into solution. That meant sleepless nights, repeated trials, failed prototypes, and sharp critiques yet you pressed on. Each was a foothold in your climb.

You faced some of the gaps of our broader educational system. You lacked many resources and often worked in unfavourable conditions. Yet you proved excellence is not born of abundance but of focus, faith, and diligence. Where others wait for perfect conditions, Mountain Climbers rise in adverse ones.

Your projects bear witness. The Electric Keke, Food Preservation tech, Softwares, Jaundice sensor, Security system, were not mere academics; it declared that Nigeria and Africa can design and deploy solutions for their realities. It is not an end but a seed, one we believe will grow into start-ups and scalable answers to real needs.

But beyond technology, your journey has been spiritual. At PRICE, learning is never apart from life. Alongside skill, you have been discipled in Christ. You now know innovation without consecration is empty. You were led to discover that true excellence actually comes from above.

*"It's God's Spirit in a person, the breath of the Almighty One, that makes wise human insight possible. The experts have no corner on wisdom" (Job 32:8 MSG)*

Mountain Climbers, your path has been marked by stretching, sacrifice, struggle, and grace. You scaled heights others abandoned and emerged stronger, wiser, equipped for the mountains ahead. This is why you are called Mountain Climbers not because the path was smooth, but because you never stopped climbing when it grew steep.

### **A Call for Nigeria and Africa**

As we reflect on the journey of these Mountain Climbers, let us not see this graduation as personal alone. Their story mirrors that of our nation and continent. Their climb is a parable for Nigeria and for Africa.

We stand in a land rich in intelligence, creativity, and resilience, yet weighed down by corruption, instability, and systems that stifle innovation. Too often, our young people are told to wait for policies, for leaders, for conditions to improve. But the Mountain Climbers have shown us that greatness does not come by waiting; it comes by rising in the midst of adversity.

Nations before us have risen. China once languished in poverty, yet through diligence and discipline wrote a new story. Earlier this session, we had the opportunity to visit China, and a lot came to light. If men without Christ could achieve that, how much more can men and women in Christ armed with His Spirit, wisdom, and mandate rebuild nations?

This is why PRICE insists on indigenous solutions. Africa cannot rise by endlessly importing. We must design our own health systems, agricultural technologies, education, energy, and transport models. The future of Africa lies in Africans who believe what God has given us is enough to build with.

We must not despise small beginnings. Every great nation started small. The question is not whether conditions are perfect, but whether we will rise with faith and diligence to multiply what God has entrusted to us.

So my charge is not to graduates alone, but to everyone: let us rise. Beyond complaint, dependency, imitation let us rise with faith, creativity, and conviction. Nigeria must cease to be a land of mere potential and become a land of performance.

Africa's destiny will not be fulfilled by those waiting for aid, but by men and women willing to sweat, sacrifice, and build with God. Like these Climbers, we must prove Africa is not a burden but a contributor to global solutions.

This is our call: to climb the mountains of national transformation, take responsibility for our story, and show the world that with Christ enthroned, nothing is impossible.

At this point, I feel a pressing need to pen a word for our policymakers and leaders: let us deliberately create an environment where indigenous works can thrive, rather than setting standards too high for them to meet. Yes, such works may begin on feeble legs and sometimes even fall, but with encouragement to rise and try again, those feeble legs will grow into the strong pillars upon which this nation can stand tomorrow. The developed nations we admire today did not begin with perfection; to expect it from those just starting is to sign their death warrant and ensure they never begin at all.

### **Finally to the Mountain Climbers**

My dear Mountain Climbers, today is more than a graduation it is a commissioning. For two years you have been trained, stretched, and disciplined. You have climbed, and learned that true greatness is not given cheaply; it is forged in fire and shaped on the mountain. Now, as you are released to climb higher still take note of the following:

#### **1. Guard and Maximize Your Discipleship**

What you received here is primarily a spiritual deposit and secondarily the technical skill. Do not take lightly the prayers, the Word, the discipleship poured into you. These are treasures in earthen vessels. As you step into the world of work, remember: your profession is not just a career it is a calling, a pulpit, a platform for Kingdom witness.

Let Christ shine through your codes, your designs, your systems. Reproduce yourself in others. Multiply disciples through both character and skill.

#### **2. Be a Prophetic Voice in Your Generation**

Just as Jesus often took Peter, James, and John aside to prepare them for weightier responsibilities, so has God taken you aside these past years as His disciples. Your time here was divine preparation. Now you are to be salt in decaying systems and light in dark spaces. Speak for Christ where others compromise. Demonstrate integrity where corruption reigns. Let your works give weight to your words. This generation needs men and women whose lives speak louder than their lips.

#### **3. Live Up to Your Name as Mountain Climbers**

A climber does not wait for the mountain to move; he climbs it. Caleb at 85 said, *"Give me this mountain."* That must be your spirit. Do not run from challenges or shrink from responsibility. Ask God for mountains in your profession, community, and nation. The terrain will be steep, but His presence and Spirit are enough. Remember: resilience is not thriving without adversity; it is thriving despite it. Let nothing crush you under the weight of responsibility. Remember the Lord's promise: *"Ask of me, and I will give you the nations as your inheritance"* (Psalm 2:8).

So I pray over you:

May your faith hold when the climb is steep.

May your vision stay clear when clouds surround the summit.

May your strength endure when others grow weary.

May your life prove that it is possible to serve Christ and transform nations at once.

The summit you stand on today is not the end, but the beginning of greater horizons. Go forth, rise higher, and may the Lord make you voices, builders, and climbers for His glory.

Congratulations, Mountain Climbers. Rise. Build. Conquer. The Lord is with you.

Thank you. God bless you.

**D. S. Olufolaji**





# FEAR NOT

Segun Gbolagade  
From The Chaplaincy

Fear Not -- From The Chaplaincy.- Segun Gbolagade

*"Fear not, for I am with you. Be not dismayed, for I am your God. I will strengthen you, yes, I will help you, I will uphold you with my righteous right hand" Isaiah 41:10 NKJV.*

Beloved, this is the word of the Lord unto you as you leave this Centre after two years of intensive, consistent, cumulative, professional discipleship in the hands of builders, engravers, tutors and governors appointed by God, both onsite and online, to invest into your lives for you to manifest Christ in the market places.

The expectation of the Lord from you is to be God's Battle Axes and Weapons of War that will break in pieces the nations, kingdoms, horse and his rider, and all that choose to stand against the purpose of God in our day. The Lord christened you as the "Mountain Climbers". He incubated you on the mount of discipleship as He ordained you to be with Him, to learn of Him and to learn from Him, so that you will become like Him that He might send you forth to be His witness.

As you go to your next stage of doing exploit and manifesting the New Creation Man, whom you have seen and experienced in the Centre, there is a great tendency for fear to fill and capture your heart on what the next stage will require, entail or hold for you. Peradventure, fear and its accolades are already taking over your heart: Whatever your circumstances and situations may be in this moment, the Lord is saying to you, **Fear Not!**

## What is fear?

Fear is a painful emotion or passion excited by an expectation of evil, or the apprehension of impending danger. It is accompanied by a desire to avoid or ward off the expected evil. It is an uneasiness of mind, upon the future evil that is likely to befall us. Where there is fear, there is dismay, terror, anxiety, worrying, trouble and terrifying emotional tendency in a man.

Several people have been overtaken and crippled by fear of failure, the enemy, the unknown, death, men, including the fear of imaginable things, and fear of fear itself! Note that, "God has not given us the spirit of fear, but of power, and of love and of a sound mind." 2 Timothy 1:7.

Why is the Lord saying, "Fear Not"? It is because He is interested in your life and committed to you to declare that 'I am with you', 'I am your God', 'I will strengthen you', 'Yes, I will help you', and 'I will uphold you with the right hand of my righteousness'.

## For I am with you:

The presence of the Lord with faith in His Word is the antidote for overcoming fear. The Lord is with you to handle your fear. He is with you to fill up all your valley and make all the mountains and hills before you low. He is committed to making all your crooked places straight and high places plain. When you pass through the waters, He will be with you, and through the rivers, they shall not overflow you. When you walk through fire, you shall not be

burnt, neither shall flame kindle upon you, ... for He is with you (Isaiah 43:2).

He declared by His Word, "... as I was with Moses, so I will be with you: I will not fail you, nor forsake you" (Joshua 1:5). Note that He who is and was with our elders, leaders, disciplers, resource persons and heroes of faith, is in charge to be with you. If He has been with our Moses and Joshuas to overcome their fears, He will not fail nor forsake you also until your fears are trampled upon in Jesus Name!

Remember that 'before His almighty presence, the mountain skip like a ram. Therefore, you must walk with Him in all your journey of life and never permit sin and whatsoever can repel His presence from your life.

On your journey of life, He that delivers us from the fear of death, conquered death and gave us victory over him that brings death is with you. Fear not, because the Lord is with you.

### **For I am your God.**

Fear not, because the Lord is your God. No man, situation or circumstances can override, overrun and overpower Him that is the God over your life. He is in charge of your life and is even ready to rule in the affairs of your life. He is your God, your Maker, Creator and Designer of your life: all you need to succeed in life is in His custody. Therefore, you must follow Him wholeheartedly and never allow anything or anyone to separate you from Him who is the Owner of your life.

### **For I will help you.**

Fear not, because the Lord is set to help you. His help is a divine aid, assistance, steady support and supply that furnishes and flourishes the life of a man and his endeavours with God's very own input. When God helps a man and becomes His helper, He will mobilize every help and helper for his life. Remember that vain is the help of man; it is after the Lord has helped you that men can be allowed to help you. Put not your trust in princes, nor in the son of man, in whom there is no help (*Psalms 146:3*).

When you lift your eyes up to Him that never sleeps nor slumbers to help you, He will preserve you from all evils and preserve your going out and coming in. Fear not, because the Lord is set to help you to surmount all the fears and challenges ahead of you.

### **I will strengthen you.**

Fear not, because the Strength of Israel is set to strengthen you. When you focus on your present state of strength, fear can capsize your boat of life and conquer your heart. To surmount fear, you must lean on Him who is willing to strengthen, fortify and reinforce your life against all odds of life. All you need to do is to make Him the strength of the materials of your life and future. "He is our refuge and strength: A very present help in the time of trouble" (*Psalm 46:1*). When the Lord is the strength of your life, you shall not be afraid ... even if a host of challenges encamp around you, your heart shall not fear (*Psalm 27:1-3*). Fear not, God is able to strengthen you and give you maximum strength!

### **I will uphold you with my righteous hand.**

He that is righteous with a righteous hand is willing to hold you up and retain you with His victorious right hand of righteousness and justice.

Fear not because the Almighty God is ready to hold you up from all that can choose to crush and crumble your life. *He is going ahead of you in this journey, to make you climb mountains as His mountain climber. As regards your marriages, employment, research breakthrough, pursuit of excellence, fulfilment in life and ministry, doing exploits and being the best you can be to the glory of God and in every facet and phase of your life, He will uphold you with His righteous hands that perform valiant things.*

Note that it is through Him you can run through troops and leap over the wall of obstacles in life. As you embark on the next stage and phase of your life, fear not, for the God who makes a worm a new, sharp threshing instrument will uphold you (*Isaiah 41:14-15*).

Finally, to live above all the fears that are ahead of you, you must follow all the principles and patterns you have shown on this mountain in the course of your training. Living by faith must be your lifestyle; you must carry Christ into everywhere you go and manifest Him at all times.

Rejoice evermore; pray without ceasing; in everything give thanks; quench not the Spirit; despise not prophesyings; prove all things and hold fast to what is good. Abstain from all appearance of evil (1 Thess. 5:16-22)

Do not forsake the assembly of the brethren and be ye not slothful, but followers of them who through faith and patience inherit the promises (*Heb. 10:25; 6:12*).

**FEAR NOT, FOR HE WILL SUSTAIN YOU AND PERFECT ALL THAT CONCERNS YOU!**





# STANDING OUT FOR GOD:

A HEARTFELT CHARGE TO THE GRADUATING SET

Nontle Gama

**A**s God has declared your SET names, so have I seen how He walked with each of you, in line with the names HE assigned to each set. It has been a privilege to be part of God's project over your lives during these two years at this Bethany Resort. We have shared joy and, yes, we have also wrestled in moments of tension—not simply for discipline's sake, but because we saw what God wants you to become. We have fought, at times, to demand the attention needed to bring you into alignment with God's written volumes about your destiny.

*“Remember, what you have connected to and gather here, in your experience with God, is what will shape your daily operations, producing results that will either rebuild the ancient ruins or scatter them further.”*

My heart's desire is that your lives, so wonderfully designed and invested into, will reflect everything God has deposited in you. May you never forget the foundational principles engrained through every resource person who poured into your journey.

## YOUR COMMISSION: GO AND MAKE A DIFFERENCE

As you step out into the world, remember: Go as **Battle Axes** and **Mountain Climbers**—be those who *restore* what has been stolen from our nations, homes, marketplaces, and the world of science, engineering, and technology.

**There are problems awaiting your divinely equipped solutions!** God has already made a covenant and a promise concerning your arrival—do not disappoint Him, nor those whose hope rises at your coming.

## REMEMBER YOUR CALLING

You were chosen from the crowds—**never forget that.** And as our Director, once said: *“After this training and exposure, you will never fit back into the crowd.”*

You are **born to stand out**, as echoed by Jimmy Caviezel, during one of our Variety meetings. Now, as your **Sisi** and **PRICE** Administrator in your time—I say: **Go, stand out. Make a difference. Confront every darkness with this life-light. Never lower the fence; fight lawlessness with firmness—always balanced with love.**

We trust God to help you defend our faith after every weekend retreat, message, discipleship investment into your life and encounter you have experienced here.

**Confront the love of money and fame** with the principles of living by faith—you have witnessed God's faithfulness firsthand: *“Man shall not live by bread alone, but by every word that proceeds from the mouth of God.”*

## THE FINAL CHARGE

Always remember: **Christ in you, is the Hope of Glory.** Congratulations once more! May God, whom you have consistently chosen in every encounter and remain steadfast for you. **He will not fail you, not even once, in Jesus' Name!**

*With love and God's blessings,*

**Sis. Nontle Gama**

PRICE Central Administrator





# **YOUTH EMPOWERMENT AND SKILLS ACQUISITION: A Strategy for National Economy Development**

The speech delivered by the Royal Father of the Day  
**HIS ROYAL MAJESTY, AGABAIDU ELAIGWU ODOGBO,**  
**Ochi Idoma of Idoma Kingdom**

## **1. Introduction**

Honorable Royal Majesty, distinguished guests, esteemed colleagues, and most importantly, the graduating youth of PRICE and PHIPTECH, I am honored to stand before you today. As we celebrate this milestone in education and skill development, it is pertinent to reflect on the vital role youth empowerment and skills acquisition play in shaping a prosperous national economy. In a world driven by technological advancements and innovation, empowering our youth with relevant skills is not just beneficial but essential for sustainable growth.

### **Scriptural References:**

Proverbs 22:29: "Seest thou a man diligent in his business? He shall stand before kings."

Colossians 3:23: "And whatsoever ye do, do it heartily, as to the Lord, and not unto men."

Jeremiah 29:11: "For I know the thoughts that I think toward you, saith the Lord, thoughts of peace, and not of evil, to give you an expected end."

Matthew 25:14-30: The parable of the talents emphasizing responsibility and productivity.

## **2. Definition of Terms**

### **Youth Empowerment:**

A process through which young people are provided with the education, skills, resources, and opportunities needed to actively participate in economic, social, and political development, fostering self-reliance and responsibility.

### **Skills Acquisition:**

The process of gaining specific knowledge, abilities, and competencies, especially practical skills, that enable individuals to perform tasks effectively and efficiently in various trades and professions.

### **National Economy Development:**

The systematic growth and improvement of a country's economic structure, productivity, employment, and standard of living, leading to overall national prosperity.

## **3. Formation of Youth Empowerment and Skills Acquisition as a Strategy for National Economy Development**

Youth empowerment and skills acquisition are critical components for sustainable economic growth and development. By equipping young people with relevant skills and fostering their active participation in the economy, nations can harness the demographic dividend and accelerate development initiatives. Youth empowerment and skills acquisition form the backbone of a resilient and competitive economy. When young people are equipped with the right skills, they become innovators, entrepreneurs, and drivers of economic growth. This strategy involves integrating education, vocational training, and entrepreneurship to create a self-sustaining cycle of progress.

## **4. Reasons for Emphasizing Youth Empowerment & Skills Acquisition**

### **1. Unemployment Reduction:**

By equipping youth with relevant skills and vocational training, they become more attractive to employers or able to establish their own businesses. This not only decreases the unemployment rate but also promotes economic self-sufficiency among young people. When youth can generate income and become entrepreneurs, it reduces dependence on government or external assistance, fostering a more dynamic and resilient economy.

## 2. Economic Diversification:

A workforce with diverse skills expands the nation's economic potential beyond traditional sectors like agriculture or basic commerce. It opens the doors to new industries such as information technology, manufacturing, healthcare, and financial services. Diversification reduces vulnerability to sector-specific downturns and helps Nigeria adapt to emerging global trends, making the economy more robust and sustainable in the long term.

## 3. Social Stability:

Empowering youth with skills and opportunities tends to foster a sense of purpose, hope, and belonging. When young people are engaged in productive activities, they are less likely to fall into social vices such as crime, violence, or drug abuse. Active participation in positive community endeavors encourages social cohesion, peace, and stability, which are essential for national development and harmony.

## 4. Global Competitiveness:

A country with a well-trained and motivated youth population positions itself strongly in the international arena. Such a nation can innovate, adopt new technologies, and produce high-quality goods and services that meet global standards. This enhances Nigeria's reputation, attracts foreign investment, and creates export opportunities, ultimately elevating its status in the global economy.

## 5. Fulfilling National and Divine Mandates:

Emphasizing youth empowerment aligns with both national development goals and spiritual principles. The Bible, especially Proverbs 22:29, encourages diligence and excellence in work, implying that responsibility and dedication are virtuous traits. Promoting a culture of hard work among youth not only fulfills patriotic responsibilities but also aligns with divine expectations for stewardship, integrity, and contribution to societal well-being. This moral foundation can inspire a generation committed to serving both God and their country.

## 5. Importance of Youth Empowerment and Skills Acquisition

### 1. Addressing Youth Unemployment:

Many countries face high youth unemployment rates. Providing skills and empowerment opportunities enables young people to access decent jobs, entrepreneurship, and innovation.

### 2. Reducing Poverty and Inequality:

Empowered youth with marketable skills is more likely to secure livelihoods, thereby contributing to poverty alleviation and reducing income disparities.

### 3. Fostering Economic Diversification:

Skilled youth can diversify economic sectors such as agriculture, technology, manufacturing, and services, boosting overall productivity.

### 4. Enhancing Social Stability:

Empowered youth are less likely to engage in unrest or criminal activities, leading to more stable societies that are conducive to economic growth.

## 6. Objectives and Goals

### 1. To equip youth with relevant technological and vocational skills:

This objective aims to provide young people with practical, up-to-date abilities that match current industry demands. By offering training in areas such as information technology, digital skills, carpentry, craftwork, agriculture, and other vocational trades, youth can gain competencies that make them job-ready or capable of establishing their own enterprises. Such skills development ensures they are prepared for the evolving job market, fostering self-reliance and resilience.

### 2. To foster entrepreneurship among young people:

Encouraging a mindset of innovation and business creation is crucial for youth empowerment. This goal involves providing mentorship, access to funding, business development training, and a supportive ecosystem that inspires young entrepreneurs to start and grow their own ventures. By nurturing entrepreneurial spirit, young people can drive economic growth, create jobs, and bring fresh ideas and solutions to societal challenges.

### 3. To create sustainable employment opportunities:

Beyond immediate job placement, this objective seeks to develop long-term employment pathways that are environmentally, economically, and socially sustainable. This includes promoting green jobs, supporting industries with future growth potential, and establishing ongoing employment programs. Sustainability ensures that employment remains resilient against economic fluctuations, and young people can build productive careers that contribute to national development.

### 4. To harness youth energy towards nation-building:

Young people are a vibrant force with innovative ideas and true passion for change. This goal emphasizes channeling their enthusiasm and creativity into constructive projects such as community development, environmental conservation, health promotion, and civic engagement. By involving youth actively in nation-building initiatives, they become custodians of progress, promoting patriotism and a sense of shared purpose.

### 5. To develop a culture of continuous learning and innovation:

Creating an environment where lifelong learning is valued encourages youth to continually upgrade their skills and adapt to new technologies and societal needs. Promoting innovation through research, skills development programs, and exposure to global best practices ensures that young people stay ahead of trends and contribute novel solutions. This culture of perpetual growth sustains Nigeria's competitiveness and societal advancement over time.

## 7. Strategies for Effective Youth Skills Development

### 1. Curriculum Alignment with Market Needs:

Educational institutions should tailor curricula to match the evolving demands of the labor market, including technical, vocational, and digital skills. Incorporate practical skills and entrepreneurial training into education.

### 2. Public-Private Partnerships (PPPs)/Partnerships

Collaboration with private sector players can facilitate internship schemes, apprenticeships, and mentorship programs that provide practical experience. Collaborate with government, private sector, and international agencies.

### 3. Entrepreneurship Development Programs:

Supporting youth entrepreneurship through training, microfinance, and incubation centers can stimulate local industries and create employment. Establish vocational centers and provide start-up capital for young entrepreneurs.

### 4. Mentorship and Role Models: Engage successful entrepreneurs and professionals to mentor youth.

### 5. Use of Technology and Digital Platforms:

Leveraging e-learning and mobile technology can expand reach and enable continuous skill development, especially in remote areas.

### 6. Policy and Legislative Support:

Governments should enact policies that prioritize youth empowerment, allocate funding, and establish conducive environments for skill acquisition.

## 8. Constraints/Challenges

### 1. Limited Funding and Resources:

- Financial constraints restrict the ability to develop, implement, and sustain vocational training programs.
- Insufficient budget limits procurement of necessary equipment, materials, and technology.
- Scarcity of funds hampers outreach efforts to attract and retain participants, as well as ongoing program support.

### 2. Inadequate Infrastructure and Facilities:

- Lack of properly equipped training centers, workshops, and laboratories hamper effective skill development.
- Poor infrastructure can lead to unsafe learning environments and diminished quality of training.
- Limited access to transportation and communication infrastructure further restricts participation, especially in



rural or remote areas.

### 3. Lack of Qualified Trainers and Mentors:

- Shortage of skilled professionals capable of delivering high-quality vocational education and mentorship.
- Existing trainers may lack up-to-date industry knowledge or teaching skills, affecting training relevance and effectiveness.
- Difficulty in attracting and retaining qualified personnel due to inadequate compensation or career growth opportunities.

### 4. Cultural Barriers Discouraging Vocational Training:

- Societal perceptions may favor traditional academic routes over vocational paths, leading to stigma or undervaluation of skilled trades.
- Gender norms may restrict certain groups, such as women, from participating in specific vocational activities.
- Lack of awareness about the benefits of vocational training can reduce community support and participation.

### 5. Political Instability or Policy Inconsistencies:

- Changes in government or policy priorities can disrupt ongoing programs or redirect funding.
- Political unrest may create unsafe conditions, making program implementation difficult.
- Lack of stable, long-term policy frameworks impairs strategic planning and sustained development of vocational training initiatives.

### 6. Economic Downturns Impacting Investment in Youth Programs:

- Recessionary periods often lead to austerity measures, reducing funding for youth and skill development initiatives.
- Private sector investment may decline, limiting opportunities for apprenticeships, internships, and industry collaborations.
- Economic instability can increase unemployment, making it harder to justify or prioritize vocational training as a solution.

## 9. Solutions/Recommendations

### 1. Mobilize community and religious organizations to support youth programs

Engage local community groups, religious institutions, and leaders to create a supportive environment for youth development initiatives. These organizations can serve as trusted platforms to disseminate information, gather feedback, and encourage participation. By involving these groups, programs become more culturally relevant and accessible, increasing youth engagement and fostering ownership within the community.

### 2. Encourage public-private partnerships for sustainability

Foster collaboration between government agencies, private sector companies, educational institutions, and non-profit organizations to develop and fund youth programs. These partnerships can offer resources such as funding, expertise, mentorship, and internships, ensuring the programs are sustained over the long term. They also provide practical opportunities for youth to acquire skills aligned with labor market needs, boosting employability.

### 3. Promote awareness campaigns to change perceptions about vocational skills

Launch targeted media campaigns, community events, and success stories to challenge stereotypes that undervalue vocational training. Highlight achievements of skilled workers and the economic benefits of vocational careers to shift public perception. Educating families, teachers, and students about the value of vocational skills can motivate more youth to pursue these paths and enhance the status of such careers.

### 4. Strengthen governance structures to ensure policy continuity

Develop clear, stable policies and leadership structures dedicated to youth development. This may involve creating dedicated agencies or task forces with defined mandates and accountability mechanisms. Ensuring consistent funding, monitoring, and evaluation processes helps maintain momentum across different governmental administrations and promotes long-term program success.

### 5. Leverage technology and innovation to maximize outreach and training

Utilize digital platforms, mobile applications, and online learning modules to reach a wider audience, including remote or marginalized populations. Incorporate innovative tools such as virtual reality, gamification, and AI-based

personalized learning to enhance training effectiveness. Technology can also facilitate mentorship programs, peer learning networks, and real-time feedback, making youth programs more engaging and accessible.

## **10. Take Home Points**

### **1. Youth are the future; empowering them today secures Nigeria's tomorrow**

Investing in youth development now ensures that Nigeria will have a resilient, innovative, and productive workforce in the future. When young people are given the right opportunities, education, and support today, they can become catalysts for positive change, economic growth, and social stability in the years to come. Recognizing the value of youth as future leaders underscores the importance of creating an enabling environment where they can thrive.

### **2. Skills acquisition is a practical pathway to economic independence and national growth**

Equipping young people with relevant vocational and technical skills provides them with the means to earn a livelihood independently. This not only reduces youth unemployment and poverty but also contributes to Nigeria's broader economic development by creating a skilled labor force. Emphasizing practical skills training aligns with market needs, fosters entrepreneurial ventures, and helps diversify the economy beyond reliance on traditional sectors.

### **3. Biblical principles support diligent work, innovation, and community service**

The teachings found in the Bible emphasize the value of hard work, integrity, creativity, and serving others. These principles can be foundational in shaping a disciplined, innovative, and community-minded generation. Encouraging youth to embody these values promotes a culture of excellence, responsibility, and social impact, which is essential for sustainable development and nation-building.

### **4. Multi-sectoral collaboration is key to overcoming challenges**

Addressing complex issues faced by Nigerian youth requires coordinated efforts among government agencies, the private sector, NGOs, religious bodies, and educational institutions. Collaboration fosters resource sharing, policy alignment, and innovative solutions. When different sectors work together, they can leverage their strengths, scale successful programs, and create a more holistic approach to youth empowerment.

### **5. Every youth should be equipped, empowered, and motivated to contribute their quota**

Every young person has unique talents and potentials that can benefit Nigeria's future. It is vital to provide access to quality education, vocational training, mentorship, and motivational opportunities. By doing so, youth are not only prepared for personal success but also inspired to actively participate in community service, entrepreneurship, and nation-building activities, ensuring that no one is left behind.

## **11. Conclusion**

The formation of comprehensive youth empowerment and skills acquisition strategies is indispensable for national economic prosperity. It requires a coordinated effort among government agencies, educational institutions, private sector, civil society, and young people themselves. Investing in the youth today will generate a skilled, innovative, and resilient workforce capable of driving sustainable economic development in the future.



## INNOVATION AND SELF-RELIANCE IN THE NIGERIAN AIR FORCE: LEVERAGING STRATEGIC PARTNERSHIP

The speech delivered by the Special Guests of Honour  
Air Marshal Hassan Bala Abubakar (DFS).  
The Chief of Air Staff of the Federal Republic of Nigeria  
on the 5th September, 2025

### INTRODUCTION

1. Barely 3 years after its formation, the Nigerian Air Force (NAF) was swiftly drawn into the Nigerian Civil War in 1967, where it provided air support through interdiction missions, close air support, transportation of troops and logistics, as well as intelligence, surveillance, and reconnaissance (ISR) operations. Since then, the NAF has evolved into a formidable force, participating in numerous internal operations as well as past international peacekeeping missions in Liberia, Sierra Leone, Sudan and Mali under the auspices of the United Nations to mention but few.
2. The NAF's operational successes are hinged on four critical enablers: the availability of combat platforms, skilled personnel, logistics support and dependable aircraft armament systems. Although dependable aircraft armament systems define the lethality and effectiveness of NAF combat operations, ensuring the serviceability of the entire combat fleet is a high-priority task to be carried out by NAF engineers and technicians. However, the intricate design philosophies of various Original Equipment Manufacturers (OEMs) make the operation and maintenance of such systems technically demanding and highly dependent on foreign expertise and support.
3. Globally, air forces invest significantly in maintaining the operational readiness of combat fleet, weapons and equipment. In developing nations, however, this often translates into extensive reliance on foreign OEMs for spare parts, technical support and maintenance services, usually at high financial and strategic costs. For Nigeria, this dependence drains national resources and risks long operational downtimes due to foreign policy shifts or alteration of diplomatic strategies. Therefore, the pursuit of self-reliance has become a strategic priority for the NAF. Achieving military-technological independence requires a multifaceted approach. This includes nurturing a robust domestic industrial ecosystem, maintaining agile R&D pipelines, integrating civilian innovation, leveraging procurement-based offsets, utilising reverse-engineering when necessary, sustaining a highly skilled workforce and leveraging strategic partnership. Compared to other approaches, strategic partnership with its capacity for enhanced innovation and product development is emerging as the preferred choice of defence industries. Innovation allows armed forces to develop context-specific solutions, reduce logistical dependence and enhance security through local capacity development.
4. Many countries have attained military technological independence by leveraging strategic partnerships involving long-term collaborations with other nations, institutions and defense industries with a view to technology transfer, capacity building and joint research. The NAF has also embraced this approach, through its strategic partnership. Notably, partnership with the Royal Moroccan Air Force (RMAF) enabled NAF technicians to independently maintain critical components of some of our aircraft gun systems. In addition, the attachment of NAF technicians at an ammunition factory of one of our international partners for a stipulated period helped develop our capacity to develop aircraft rocket structure. Furthermore, the NAF also signed Memoranda of Understanding (MoUs) with local universities, training institutions and research centers to stimulate various indigenous defense innovation.



5. Despite these efforts, the NAF still faces certain challenges in the maintenance of key assets that project its combat effectiveness and lethality in achieving her security imperatives. Attempts by the NAF to reduce reliance on foreign vendors for provision of these critical items through reverse engineering by NAF R&D team has largely been challenged by lack of technical capacity. Accordingly, this paper seeks to explore how NAF have leveraged on strategic partnership to make up for deficient technical capacity thereby reducing its reliance on foreign OEM/vendors to support its operations. The issues discussed in this paper revolves around the activities of the NAF between 2012 – 2025 identified as the most active period of NAF engagement in strategic partnership.

### AIM

6. The aim of this paper is to explore how leveraging strategic partnerships has enhanced innovation and self-reliance in NAF operations.

### SCOPE

7. The paper would cover the following:
- Clarification of Key terms.
  - Contributions of Innovation to Attaining Self-Reliance.
  - Previous Efforts to Leverage Strategic Partnerships.
  - Challenges Inhibiting NAF's Strategic Partnership Efforts.
  - Contemporary Models of Strategic Partnerships.
  - Way Forward.

### CLARIFICATION OF KEY TERMS

8. A clear understanding of the key concepts in this paper is essential to appreciate the link between innovation, strategic partnerships and self-reliance in NAF operations.

a. **Innovation.** Innovation refers to the creative application of knowledge and technology to develop new methods, ideas or devices. In a military context, it involves creating solutions that enhance operational efficiency, reduce costs and improve capability and performance.

b. **Self-reliance.** Self-reliance is the ability of an organization or nation to function independently without sustained external assistance. In our own context, it means having local expertise, tools and facilities to manage, repair, upgrade and develop armament, its accessories and related military assets without relying on foreign OEMs.

c. **Strategic Partnership.** A strategic partnership is a collaborative agreement between two or more entities, states, institutions or corporations, pursuing common objectives, particularly in military, technological, or economic areas. Such partnerships promote shared learning, technology exchange and capacity building.

9. *There is therefore a close link between self-reliance, innovation and strategic partnership. Firstly, self-reliance is realized through innovation while innovation is enhanced through strategic partnership. Meanwhile, strategic partnership serves as a catalyst for innovation. Hence the key variables are linearly dependent.*

### CONTRIBUTIONS OF INNOVATION TO ATTAINING SELF-RELIANCE IN AIRCRAFT SYSTEM MAINTENANCE IN THE NAF

10. Innovation plays a critical role in strengthening the self-reliance of the NAF in aircraft systems maintenance by reducing foreign dependence, enhancing lower operational and lifecycle costs amongst others. These benefits are discussed in subsequent paragraphs.

11. **Reduced Dependence on Foreign Suppliers.** The sustenance of aircraft systems in the NAF particularly the combat platforms has traditionally relied heavily on foreign suppliers for training, spares, tools and ammunition, often at extremely high financial and political costs. However, innovation has enabled the local development of critical components, mitigating these dependencies. In some cases where foreign procurement efforts failed due to stringent compliance requirements, the issues were successfully resolved by producing the required components through local R&D, thereby sustaining NAF operations across several theatres.

12. **Lower Operational and Lifecycle Costs.** Acquiring combat aircraft and its associated equipment is capital-intensive, with costs further exacerbated by reliance on OEM facilities for maintenance. For instance, through innovative research, the NAF developed an in-house method for testing the ejection seat's operational status and determining safe extensions to its lifecycle. This allowed informed decision-making, extended usability, and significantly reduced maintenance costs.

13. **Enhanced System Availability and Readiness.** Timely innovation provides indigenous solutions to technical challenges that would otherwise delay mission readiness. A clear example was the design and production of adapters to resolve the issue of incompatible aircraft rockets. Rather than awaiting foreign support, the issues were quickly diagnosed and resolved locally, restoring combat capability and preserving the desired momentum in NAF combat operations while conforming to international standards in terms of quality and safety.

14. **Development of Indigenous Technical Expertise.** Innovation fosters local capacity by encouraging collaboration with universities, research institutions and technical schools. Initiatives like the development of UAVs and the local production of rockets exemplify how NAF has built internal expertise. These efforts have not only boosted technical competence within the Service but have also elevated national skill levels through inter-institutional local partnerships.

15. **Improved Security and Technology Control.** Relying on local innovations ensures greater sovereignty over sensitive military technologies, including software, components and system data. By developing munitions and other support systems in-house, the NAF reduces exposure to foreign constraints and enhances the confidentiality and control of critical defense infrastructure. A case in point is the ongoing inhouse development of own auto pilot system for our unmanned aerial vehicles by NAF personnel.

16. **Lifecycle Sustainability and Upgrade Capability.** With a growing base of indigenous knowledge and technical tools, the NAF is increasingly capable of sustaining and modernizing its operating platforms without relying on external contractors. In some cases, munitions stockpiled from grounded aircraft were successfully reconfigured for use on operational platforms, thereby extending their shelf life and maximizing resource utilization. In the same vein, the operational and shelf life of other aircraft components was reviewed upwards based on empirical evidence from standardized test carried out by a technical team of local professionals.

17. **Strategic Autonomy and Export Potential.** Ultimately, innovation-driven self-reliance empowers the NAF to position itself as a regional leader in aircraft system maintenance. Infact, the dividends of NAF innovations in R&D have benefited sister services and civilian organisations. As local capabilities improves, Nigeria through the NAF could potentially offer maintenance services, technical expertise, or even armament products to allied countries, thereby strengthening diplomatic ties and contributing to national economic development.

## **PREVIOUS EFFORTS AT LEVERAGING STRATEGIC PARTNERSHIP IN BY THE NAF**

18. The NAF has a history of leveraging strategic partnerships to advance innovation and technical capacity since its inception. In some cases, these partnerships have yielded tangible innovations in maintenance processes and capability development. In other cases, the full potential of the collaborations was either not fully realized or completely failed. Notable cases of realized collaborations include:

- a. **Government of West Germany for Establishment of Air Force Institute of Technology (AFIT).** Established in 1977 as the Technical Supply School through a strategic partnership with former West Germany, AFIT benefitted from curriculum design support, training, equipment and German technical experts. This collaboration laid the foundation for formalized aircraft engineering in the NAF.
- b. **Cranfield University United Kingdom.** Through a robust academic partnership, numerous NAF engineers were trained up to the doctorate level, significantly enhancing indigenous capacity in explosive ordnance engineering, autonomous vehicle design and advanced aeronautics. A number of personnel actively involved in R&D in the NAF are beneficiaries of these trainings.
- c. **Prototype Engineering Development Institute (PEDI).** This collaboration introduced NAF personnel to the operation and maintenance of Computer Numerical Controlled (CNC) machines, a critical skill in modern precision aircraft component manufacturing. PEDI has so far trained and graduated NAF personnel on advanced machining technology and an agreement on close technical support has also been reached with the organization on the operation and maintenance of the machines.
- d. **Defence Industries Corporation of Nigeria (DICON).** As Nigeria's leading indigenous defense manufacturing establishment, DICON has played a vital role in supporting the NAF's self-reliance objectives. Through strategic collaboration with AFIT and the Air Force Research and Development Institute (AFRDI), DICON has partnered on several notable projects involving the local production of critical components and materials testing. These efforts have enhanced local fabrication capabilities and reduced reliance on foreign OEMs for key subsystems and munitions.
- e. **ARMSCOR South Africa.** The NAF's engagement with Armament Corporation of South Africa (ARMSCOR) led to limited training on maintenance of some critical aircraft components. The NAF has built on that training and advanced to complete retrofitting of other sub systems of our platforms including capacity for replacement and salvaging of critical components and spares.
- f. **NARICT Zaria.** Collaboration with National Research Institute for Chemical Technology (NARICT) Zaria improved local capacity for chemical analysis of Item XYZ (a critical item for pilot safe ejection). Prior to this feat, the NAF relied on foreign vendors which charge as much as \$144,000.00 for physical inspection of item XYZ only. However, partnership with NARICT helped the NAF to expand the scope of inspection to include chemical analysis and performance evaluation as stipulated in extant rules and standards at less than 5 per cent of the cost charged by the foreign vendor.
- g. **Royal Moroccan Air Force.** The recent cooperation between the NAF and Royal Moroccan Air Force enhanced NAF capability in repairs of some key aircraft components. These experiences highlight the persistent challenges of securing meaningful technology transfer and underscores the need for structured, clearly defined, enforceable agreements and sustained funding to transform partnerships into long-term self-reliant capabilities.
- h. **ZenitProm of Serbia.** Collaboration with ZenitProm of Serbia facilitated the factory attachment training of NAF personnel in a production factory. Though the attachment period was grossly inadequate, nonetheless, the knowledge gained within the short period by the NAF personnel while in the attachment has been brought to bear in ongoing R&D efforts.
- g. **Academic and R&D Collaborations.** The NAF has signed multiple Memoranda of Understanding (MoUs) more recently with institutions such as Lagos State University (LASU) and Equipment and Protective Application International Limited (EPAIL). These agreements aim to strengthen innovation pipelines, support local R&D, and drive sustainability in aircraft maintenance operations. The reviewed MoU with other research entities like the National Agency for Science and Engineering Infrastructure (NASENI) is being ratified to enhance collaborative R&D in rocketry technology and other areas. Also, an MoU was recently signed between the NAF and University of Bradford, United Kingdom in the area of space technology and electronics engineering. This partnership is expected to produce spin-offs that would be of immense benefit to other sister services and security agencies in the country.



19. Just as there are cases of successful strategic partnerships, there are also cases of failed efforts at securing desired deals by the NAF. Some of the failed attempts are discussed subsequently:

a. **Island Ordnance Industries USA**. The NAF approached Island Ordnance Industries in 2018 for technical assistance on some critical components but the company declined deeper engagement, preferring only to sell finished products.

b. **Internal Jets/Arlington USA**. Internal Jets/Arlington declined the request to train NAF personnel on cartridge XY3Z evaluation and life extension. Gladly, the negative response ultimately spurred a local breakthrough in life extension technology for same cartridge XY3Z two years later.

c. **Global Innovative Defence Systems Pakistan**. In 2016, Global Innovative Defence Systems (GIDS) of Pakistan was invited to assist with legacy missile refurbishment and system adaptation, but the engagement shifted towards conventional procurement of their company products, offering nil technical transfer.

d. **Martin Baker United Kingdom**. In 2015, Martin Baker UK did not accented to NAF's request to support training and technology transfer on aircraft pilot escape systems.

e. **Avibras Brazil**. Attempts by the NAF to engage Avibras Brazil for in country production of some critical components required for its operations in 2022 was hindered by high financial thresholds set by the company and the absence of a local industrial base.

f. **CATIC China**. China National Aero-Technology Import and Export Corporation (CATIC) responded to a request for component technology transfer held in March 2024 with offers limited to expensive maintenance facilities for a less critical item.

g. **ZenitProm Serbia**. ZenitProm showed initial enthusiasm on the technology transfer agreement of a critical component reached with the NAF by facilitating a factory attachment training for NAF personnel at a production facility at overseas ahead of the final contract agreement. However, numerous challenges especially those bordering on exchange rate differential stalled the actualization of the project.

h. **Tara Aerospace Montenegro**. Tara Aero Space was engaged for provision of component GH7J in furtherance of NAF R&D efforts. However, the negotiations did not sail through due to excuses by the company of past contractual breaches.

## **CONTEMPORARY MODELS OF STRATEGIC PARTNERSHIP EFFORTS**

20. To better understand how strategic partnerships could be optimized for innovation and self-reliance, it is useful to examine successful international models such as those of Pakistan and South Africa.

21. **Pakistan's Experience**. The Pakistan Air Force (PAF) presents a strong example of how strategic partnerships can drive innovation and self-reliance in aircraft armament maintenance. Following the arms embargo imposed by the United States after the 1965 India-Pakistan War, Pakistan sought alternative alliances and formed a long-standing defense partnership with China knowing fully well that India had benefitted immensely from its strategic partnership with Russia. This collaboration expanded from military procurement into joint production, research and capacity building. Through this partnership, Pakistan established the Pakistan Ordnance Factories (POF), Pakistan Aeronautical Complex (PAC) and the Pakistan Armament Research and Development Establishment (ARDE). These institutions, in collaboration with Chinese defense industries, enabled local manufacturing of key armaments such as the MK-82, MK-83 and MK-84 bombs and the PL-9C air-to-air missile. The ARDE in particular serves as a model innovation hub, integrating Chinese technical expertise, local defense scientists and academic researchers. This arrangement has improved Pakistan's technological base, reduced dependence on foreign support and empowered the PAF to maintain and develop its own armament systems. The sustained trust and commitment between both nations highlight the critical role of strategic alignment, political will and institutional continuity in fostering successful defense innovation partnerships.

22. **South Africa's Experience.** South Africa, through the South African National Defence Force (SANDF) and ARMSCOR (Armaments Corporation of South Africa), has achieved notable progress in armament production and maintenance by leveraging technical partnerships. Collaborations with countries like India and Pakistan have resulted in the local design and manufacture of aircraft bombs, rockets, and related systems. Recently, South Africa reinforced its defense cooperation with Pakistan to expand its domestic armament capabilities. A bilateral agreement facilitated joint training programs, maintenance support and plans to develop a military-industrial base aligned with Pakistan's National Aerospace Science and Technology Park (NASTP). The agreement includes commitments for Pakistan to assist with manpower, technology transfer and production capacity to support the South African Air Force (SAAF). These strategic partnerships have helped ARMSCOR reduce South Africa's dependency on external vendors for maintenance and spares, while also enhancing the technical competence of local personnel. The collaboration underscores how a deliberate and structured approach to international military-industrial partnerships can foster armament self-reliance. In this regard, a NAF delegation visit to the ARDE with a view to leveraging collaborations in R&D in armament technology has become very necessary.

### **CHALLENGES HINDERING STRATEGIC PARTNERSHIPS FOR SELF RELIANCE IN THE NAF**

23. Despite the strides made by the NAF in leveraging strategic partnerships to drive innovation and achieve self-reliance in its operations, it is constrained by some challenges. These obstacles ranging from technical and institutional to political and economic, continue to impede the full realization of these efforts. These challenges would be highlighted in subsequent paragraphs.

24. **Technology Transfer Limitations.** From experience, foreign strategic partners remain reluctant to substantially transfer sensitive technologies, particularly those related to aircraft weapon systems. Citing national security concerns and export control regulations, they often withhold access to essential components such as design schematics, source codes, proprietary software and specialized tooling. This restriction severely limits the NAF's ability to domesticate maintenance processes or build upon existing systems through local innovation.

25. **Funding Constraints.** Innovation in combat aircraft sustenance requires sustained investment in research, advanced tooling and technical infrastructure. However, high costs associated with maintaining certain defence systems place a strain on defense budgets. This financial pressure weakens R&D collaborations with tertiary institutions and private sector players. Recognizing this challenge, the NAF has reviewed its R&D Policy to streamline coordination and monitoring of defense-related innovations. All properly articulated R&D projects considered very relevant to NAF operations have been aptly approved by me when recommended by the specialist Branch.

26. **Underdeveloped Indigenous Defense Industry.** Nigeria's indigenous defense industrial base, especially in the areas of missile and rocket research and manufacturing, remains significantly underdeveloped. Presently, Defence Industries Corporation of Nigeria (DICON), a key institution in Nigeria's defense manufacturing ecosystem, does not have the advanced infrastructure and consistent funding required to support the production of high-precision defence components. Additionally, private sector participation in defense innovation remains minimal, largely due to perceived investment risks and limited short-term profitability.

27. While the NAF has recorded commendable progress in weapon designs, the capacity to produce these systems at scale for operational deployment is still limited. In an unprecedented step towards self-reliance, I recently approved commencement and funding of prototype production of some critical aircraft component, with the plan to establish a partial assembly line at one of our institutes. This effort is aimed at fully domesticating technology with long term aim for mass production, thereby reducing dependence on foreign manufacturers. However, full-scale production would require collaborations with civil defense industries due to gaps in local defense industrial capacity.

28. **Policy and Bureaucratic Bottlenecks.** Stringent bureaucratic processes often hinder the timely implementation of strategic partnerships. Delays in procurement approvals, project execution and the release of appropriation funding frequently undermine collaborative momentum. Additionally, sourcing platforms and spares from multiple foreign countries create compatibility challenges that further complicate maintenance and research efforts. Also, frequent changing of government priorities stalls ongoing projects, while weak enforcement of local content policies in defense contracts continues to limit domestic value creation.

29. **Human Capital Gap.** Advanced combat aircraft system maintenance and innovation require a specialized workforce skilled in aeronautics, avionics, propulsion systems, weapon systems and AI-enabled diagnostics. Although institutions like the AFIT, AFRDI and several Nigerian universities are training engineers in these domains, the country still faces a shortage of highly skilled personnel in these and other relevant areas. Compounding the issue is the growing brain drain, with many trained experts seeking better opportunities abroad.

## **WAY FORWARD**

30. To enhance self-reliance in combat aircraft system maintenance through innovation and strategic partnerships, the following actions are posited as Way Forward:

31. **Institutionalize Technology Transfer Frameworks in Strategic Partnerships.** The NAF is practicably imbibing clearly defined, enforceable technology transfer clauses in all foreign procurement and partnership agreements. This initiative has been enshrined in the revised NAF R&D Policy 2025. A dedicated multidisciplinary team constituted by me is responsible to liaise with OEMs and coordinate with defence attachés to resolve bottlenecks for technology transfer. This will ensure systematic transition of maintenance know-how to local expertise. We are not however obliged to patronize vendors that are not willing to accept technology transfer as part of contractual agreement even when with bulk purchase.

32. **Increase Funding for R&D.** Innovation requires sustained investment; therefore, the NAF is working towards establishing a dedicated R&D budget line, tap into federal government research grants and explore donor/ counterpart funding with partners. Increased investment will enable high-impact, mission-aligned research that strengthens self-reliance.

33. **Vibrant Indigenous Industries.** A self-sustaining defence products capability requires vibrant local industries in metallurgy, chemical and other ancillary fields. Policies that promote local content, incentivize private sector participation and support licensing for domestic production are critical. We believe that DICON needs to transform into a commercially competitive entity through funding, modernization and strategic partnerships, while private firms could be encouraged to contribute impactfully to the military industrial complex.

34. **Enhance Local Technical Capacity Development.** The NAF, through AFIT and AFRDI, is prioritizing training in advanced areas such as avionics, weapons systems, software engineering, composite materials and reverse engineering. Measures are being put in place to ensure that high-potential personnel are equipped with modular training kits, simulators and, where necessary, immersion programs abroad. Furthermore, partnerships with tertiary institutions and research centers are being deepened to support innovation ecosystems. Additionally, the NAF is at the verge of introducing STEM-based research competitions at the secondary school level, offering scholarships to outstanding students in aerospace relevant disciplines. This early engagement will foster long-term interest and loyalty while building a pool of technically capable future personnel.

35. **Revision of R&D Policy and Strategic Plan.** The timely ratification and implementation of the revised NAF R&D Policy and the Ten-Year R&D Strategic Plan is critical to achieving self-reliance. To this effect, I will be signing the two documents in the next couple of weeks. These documents provide a unified framework in collaboration with other AFN research entities for coordinating research initiatives, aligning innovation with operational needs and institutionalizing technology absorption and localization strategies across the Service.



## **CONCLUSION**

36. The NAF operates a diverse fleet of aircraft sourced from different global blocs, each with distinct design philosophies and proprietary technologies. This diversity, while broadening operational capability, presents significant political, economic and technical challenges, particularly in armament system maintenance. The reluctance of OEMs to fully transfer technology further complicates local maintenance efforts. To overcome these limitations, the NAF must intensify efforts to localize technologies through sustained innovation in the maintenance and production of critical defence items in sustenance of its operations. Innovation offers a range of benefits such as reducing dependence on foreign suppliers, lowering operational and lifecycle costs, enhancing system readiness, developing indigenous expertise, improving security and technology control, enabling upgrades and sustainability and positioning Nigeria for strategic autonomy with potential for export capability. These outcomes are critical for building a resilient and self-sufficient air force.

37. Although the NAF has made commendable progress by leveraging strategic partnerships such as collaborations with research institutions, defense contractors and international partners, significant gaps remain. Key challenges include restricted access to critical technologies, limited funding for research and development, underdeveloped local defense manufacturing infrastructure and a shortage of specialized human capital. To address these issues and realize full self-reliance, the NAF must strengthen its approach by institutionalizing technology transfer frameworks in all partnerships, increasing investment in R&D, revitalizing indigenous defense industries and developing local technical capacity across all levels. By pursuing these measures systematically, the NAF can transform its armament maintenance capability, enhance national defense sovereignty and contribute meaningfully to Nigeria's broader defense industrial development.

## **ACTION SUMMARY**

38. Our action summary to maximize strategic partnership for self-reliance are as follows:

- a. Clearly define and enforce technology transfer clauses in all strategic partnership agreements to ensure local capacity development.
- b. Increase dedicated funding for R&D by establishing a specific budget line as specified in the revised NAF R&D Policy.
- c. Strengthen technical training at AFIT and AFRDI to develop advanced skills and innovation in combat aircraft sustenance.
- d. Expand academic and R&D partnerships with tertiary Institutions and research centers including PRICE to support local innovation pipelines.
- e. Encourage R&D visits to notable foreign military entities.
- f. Promote interagency collaboration to harmonize defense R&D efforts and ensure effective local content policy enforcement.
- g. Ratify and sign the Reviewed NAF R&D Policy and NAF R&D Strategic Plan.



# ENGINEERING

## RESEARCH AND INNOVATION: A BEDROCK FOR INDUSTRIALIZATION, EMPLOYMENT AND NATIONAL ECONOMIC DEVELOPMENT

BY ENGR PROF. SAM BABA ONOJA

### 1. Introduction

*And God blessed them and said to them, Be fruitful, multiply, and fill the earth, and subdue it [using all its vast resources in the service of God and man]; and have dominion over the fish of the sea, the birds of the air, and over every living creature that moves upon the earth. (Gen 1:28 AMP)*

After the creation of everything in Genesi 1, God handed everything over to man as recorded above. Since then man has overseen God's creation. Even after the fall, He did not take away that role from man. There are many living creatures and non-living materials that God made for the benefit of man and other creatures. Some of these are obvious while some must be searched out, emphasizing the need for research as in Prov 25:2.

*"It is the glory of God to conceal a matter; to search out a matter is the glory of kings". (Prov 25:2 NIV)*

Also, Deut 29:29 buttress this fact of the need for research:

*"The secret things belong to the Lord our God, but those things which are revealed belong to us and to our children forever, that we may do all the words of this law." (NKJV)*

The "things which are revealed", which are for our benefits (us and our children) can be by scientific research. This research is by man who God had made and continues to make. A well-made man will carry out well-made research.

### 2. Key words

#### 1.1 Engineering Research and innovation

Engineering is the application of scientific and mathematical theories and principles to address and solve real life problems. Research is a scientific and systematic search for knowledge, for significant information on a specific topic; it is a careful investigation through search for new facts in any branch of knowledge- A voyage of discovery. It is a formal systematic and robust process of carrying out analysis of an object or a particular situation to discover and develop an original body of knowledge.

Engineering research aims at achieving scientific goals that are useful to society. It focuses on developing solutions to real-world problems, The goal of scientific research is to discover laws and postulate theories that can explain natural or social phenomena, or in other words, build scientific knowledge. It is important to understand that this knowledge may be imperfect or even quite far from the truth.

Innovation, on the other hand, refers to the implementation of new ideas, products, or processes that create value. It encompasses not just invention but also the development and commercialization of new technologies and solutions. Innovation is the act of making changes in something established, by introducing new methods, ideas, or products. Many times, these changes are products of research. Peters, Vice Chancellor, Noun said that "research must translate into tangible solutions that address the socio-economic challenges facing Nigeria and Africa at large". On the same occasion, Prof Katampe, noted that research should not end on the shelves of universities and research institutes) but must be translated into viable technologies, products, and policies that improve the quality of life for citizens. So, good research must result in innovations for the benefits of men

Research and innovation are interconnected in the following ways:

From Ideas to Implementation: Research provides the foundational knowledge necessary for innovation. As one saying goes, "Research is turning money into ideas, but innovation is turning ideas into money."

Economic Impact: Both research and innovation are critical for economic development. Countries that prioritize scientific research and technological innovation tend to experience faster industrial

growth and improved competitiveness in the global market.

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- Feedback Loop: The relationship is often cyclical; successful innovations can lead to new research questions and areas of inquiry, creating a continuous loop of knowledge generation and application. This dynamic is essential for addressing complex challenges and fostering sustainable development.

Policy and Investment: Effective policies that support both research and innovation are crucial. Investments in research infrastructure, education, and collaboration between academia and industry can enhance the innovation ecosystem, leading to better outcomes in terms of productivity and economic growth.

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Research and innovation are deeply intertwined, with research serving as the bedrock for innovative developments.

## **1.2 Industrialization**

Industrialization is the shift from an agriculture-based economy to one focused on mechanized manufacturing, often resulting in higher income and improved living standards. That was how it started, but presently, industrialization is the process of converting to a socioeconomic order in which industry is dominant.

At the inception of technology, there was the fear that technology takes away jobs from people. As much as that is a fact, the other fact is that if technology takes the job of one man, it creates jobs for more than ten men. The ten men however must be trained and skilled to take the ten new jobs.

## **1.3 Employment**

Employment is the act of engaging person(s) to a certain work or carrying out some assignments. Employment is the state of having a paid work. It involves a relationship between employer and employee. The employer profits from an employee's productive activity for the organization, and the employee, in exchange, gets monetary gain for it.

## **1.4 Economic Development**

Economic development is a multifaceted process embracing economic growth, structural changes in the economy, improving the conditions, and quality of life of the population.

The indicators of national economic development include Gross domestic product (GDP), Gross national income (GNI), Improved living standard, Human development index (Education, training and re-training), Development of entrepreneurship, Population growth and Employment. Another term for economic development is economic growth.

When you look at these indicators and compare them with our present experiences in Nigeria, we cannot say there is economic growth, rather we have economic decline.

## **3. Engineering Research, Innovation and Industrialization**

In all our professions, there are hidden things that are yet to be revealed for the benefits of men. Who gets them revealed depends on who searches for them, i.e. who researches them.

Under this topic, we will not be able to delve into the theories and principles that brought about innovations and industrializations in the past, but we will highlight a few individuals that brought about innovations in their generations. The point being made is that the theories and principles in science, technology, arts, social sciences and humanities are there for everyone. But it is the one that dares to use them in research, that searches them out that would find them. Let it be said that this research we are talking about can be as individuals or as teams. In the current research landscape, team research is the in thing. So, we hear of inter—disciplinary research.

While here, in PRICE, you carried out different research in teams. In PHIPTECH, too I know you must have worked together in teams. It is like in all endeavors of life, God's conclusion that "It is not good for man to be alone". Lone rangers don't make significant impacts, especially in converting research results into innovations.

### **3.1. Industrial Revolution**

The industrial revolution began in the mid-18<sup>th</sup> century. It transformed agrarian societies into industrialized urban cities. It altered economies, societies, and technologies worldwide. There were two main phases. The first phase was from mid—18<sup>th</sup> century to 1830, while the second phase was from mid-19<sup>th</sup> century to early 20<sup>th</sup> century. Presently, maybe we are in the third or fourth phase because industrialization has continued to grow globally.

The key developments included technological innovations, shift from agrarian activities to industrial, economic growth, social impacts and it had a global spread of this. While the key innovations/technologies included:

- The spinning jenny (a wooden frame with multiple spindles), the flying shuttle, the water frame and the power loom made weaving cloth and spinning yarn and thread much easier. Producing cloth became faster



and required less time and far less human labor. More efficient, mechanized production meant Britain's new textile factories could meet the growing demand for cloth both at home and abroad

- The smelting of iron ore with coke (a material made by heating coal) instead of the traditional charcoal. This method was both cheaper and produced higher-quality material, enabling Britain's iron and steel production
- Steam Power : An icon of the Industrial Revolution broke onto the scene in the early 1700s, when [Thomas Newcomen](#) designed the prototype for the first modern [steam engine](#). Called the "atmospheric steam engine," Newcomen's invention was originally applied to power the machines used to pump water out of mine shafts.
- Transportation: Britain's road network, which had been relatively primitive prior to industrialization, soon saw substantial improvements, and more than 2,000 miles of canals were in use across Britain by 1815. Steam-powered boats and ships were already in wide use, carrying goods along Britain's rivers and canals as well as across the Atlantic.
- Banking and Communication: Smith promoted an economic system based on free enterprise, the private ownership of means of production, and lack of government interference. Banks and industrial financiers soon rose to new prominence during this period, as well as a factory system dependent on owners and managers.

Key individuals in the industrial Revolution include among others:

- James Watts (1738-1819), a Scottish Mechanical Engineer invented the steam engine
- James Hargreaves (1720-1778) is credited with inventing the spinning jenny
- Richard Arkwright (1732-1792), pioneered the modern day industrial factory system in Britain
- Josiah Wedgwood (1730-1795), known as the 'Father of English Potters', Josiah Wedgwood transformed the English pottery trade into an impressive international business
- **Michael Faraday (1791-1867)**, invented the first electric motor in 1822, and in 1831 discovered electromagnetic induction, building the first electric generator known as the Faraday disk.
- **George Stephenson (1781-1848)**

Renowned as the 'Father of Railways', George Stephenson was a pioneer of rail transport in Britain. In 1821, he instigated the use of steam locomotives on the Stockton and Darlington railway, on which he acted as chief engineer. When it opened in 1825 was the first public railway in the world.

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- Isambard Kingdom Brunel (1806-1859), sought to connect the world through his masterpieces in iron. At just 20 years old, he helped his father to design and construct the 1,300-foot [Thames Tunnel](#), and at 24 he designed the magnificent [Clifton Suspension Bridge](#) over the River Avon in Bristol. When completed, it had the longest span of any bridge in the world at 700ft.  
In 1833, Brunel became chief engineer of an ambitious project to link London to Bristol via a 124-mile railway route: the Great Western Railway. Seeking to extend this route all the way to New York, in 1838 he launched SS *Great Western*, the first steamship purpose-built for crossing the Atlantic, and in 1843 he launched the largest ship of her day: [SS Great Britain](#).
- **8 and 9. William Fothergill Cooke (1806-1879) and Charles Wheatstone (1802-1875)** In 1837, inventor William Fothergill Cooke and scientist Charles Wheatstone installed their new invention, the first electrical telegraph, along a rail line between Euston and Camden Town in London
- **Sarah Chapman (1862-1945)** was employed at the Bryant & May matchstick factory from the age of 19. At just 26, she played a leading role in the Matchgirls' Strike of 1888, in which approximately 1,400 girls and women walked out of the factory to protest poor conditions and worker mistreatment. Eventually, the Matchgirls' demands were met

### 3.2. Computer (ICT) Revolution

The computer revolution refers to the period of rapid technological advancement in computing that has fundamentally changed how we live, work, and communicate. This revolution can be divided into several key phases, each characterized by significant technological innovations and societal impacts.

Though the history of computing dates back to Charles Babbage in 1822, the history of the computer which we have today is said to have or belong to five generations starting from the 1900s as contained in the Table below:

| <b>Computer Generations</b>   | <b>Periods</b>     | <b>Based on</b>              | <b>Size</b>                                                                           | <b>Developer</b>                                                    |
|-------------------------------|--------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| First-generation of computer  | 1940-1956          | Vacuum tubes                 | Very large 30-50 feet long, 30 tons weight                                            | <b>John Ambrose Fleming”</b>                                        |
| Second-generation of computer | 1956-1963          | Transistor                   | Smaller than the first-generations of computers                                       | <b>John Bardeen, Walter Brattain, and William Shockley”</b>         |
| Third-generation of computer  | 1964-1971          | Integrated Circuit (ICs)     | Smaller in size as compared to previous generations                                   | American engineers “ <b>Robert Noyce</b> ” & “ <b>Jack Kilby</b> ”. |
| Fourth-generation of computer | 1971-present       | Microprocessor               | smaller in size and much more reliable as compared to other generations of computers. | Marcian Hoff, Masatoshi Shima, Federico Faggin, and Stanley Mazor“  |
| Fifth-generation of computer  | Present and Beyond | AI (Artificial Intelligence) | smaller in size and it is more compatible                                             |                                                                     |

The development and growth of information communication technology is still on-going. Presently, the artificial intelligence has changed and is still changing the information communication landscape.

### **1. Benefits of Industrialization**

Though industrialization has its negative impacts as a result of various waste discharges, the benefits far outweigh such impacts as efforts are made especially in the industrialized world to mitigate such impacts by waste reduction, waste treatment and waste recycling among other measures.

The benefits of industrialization include but not limited to

- **current import-export market**
- **increase in production (more productive).**
- **goods and services more available and affordable**
- **improvement of standard of living**

- Improved social facilities like medical care, schools, water supply
- Urbanization with all its positive fall outs
- **Specialization and skills development**
- **Job creation for the global economy**

### **1.1. Industrialization and Employment**

industrialization will reduce the number of people that is unemployed in the country when more industries are established by both foreign and domestic investors.

We had said earlier that industrialization brings about employment generation. Manufacturing industries reduced the situation of unemployment in the country with establishment of more industries by Nigerian (private sector), the government and foreign industries (owned by foreigners) more people are been employed and these will result to an increase in income and standard of living of people

### **1.2. Industrialization and National Economic Development**

Earlier, we highlighted on the indices economic development. It will just be stated here that industrialization is very key in the realization of all of those indices

## **2. The need for Education and Training (Skill Development)**

The greatest challenge we have in our times is that young men and young women who should be in one formal educational institution or the other are out of school. That has lead to all kinds of societal vices, too well known to be listed here in want of space and time to do so.

I said earlier that when technology take a job from one msn, it creates jobs for more than 10 people, but the ten has to be trained to be able to take up the new jobs. These new jobs require more education ad training, which are best done while one is young. So, when the young are out of school, those job opportunities can never be harnessed by them.

So, every government of the people, for the people and by the people, which is what we are told is democracy, must make its citizens, especially the young have access to affordable and qualitative education at their doorsteps. That was the experience we had when we were young that made us to be educated today. Education is said to be on the concurrent list of the three tiers of government: the Federal, the State and the Local Government. They have fallen far short in that responsibility, especially by the State and Local Governments as many public schools have collapsed in terms of infrastructure and manpower. Those who can afford have moved their children to private schools, while the larger population are roaming the streets. And because young people are generally restless, when there is no school to engage them, they find something else to do, the reason for most of the youthful vices.

## **3. Faith and research and innovations**

*“It is the glory of God to conceal a matter; to search out a matter is the glory of kings”. (Prov 25:2 NIV)*

Researchers and Innovators are kings in their different professions and career, especially in the things that bring industrialization that change landscapes of human existence.

*“The secret things belong to the Lord our God, but those things which are revealed belong to us and to our children forever; that we may do all the words of this law.” (NKJV)*

Faith can provide a sense of purpose and direction for innovators, especially when they face uncertainty, ambiguity, or failure. Faith can help innovators to persevere, adapt, and learn from their experiences, and to align their actions with their values and goals.

Scripture and the personal experience of Christians worldwide show that God uses innovation for humans to know more of Him, to communicate with Him, and to ultimately accomplish His earthly will for mankind.

Noah's Ark: One of the earliest examples of innovation in the Bible is the construction of Noah's Ark. God provided Noah with specific instructions to build an ark to preserve life during the flood (Genesis 6:14-16). That was a classic innovation that God authored.

Even today, we can still receive similar instructions through research and innovations, but we must heed Jn 15:5

*“I am the vine, ye are the branches: He that abideth in me, and I in him, the same bringeth forth much fruit: for without me ye can do nothing.” (KJV)*

The Christian is better positioned for research and innovation because of the access he has to God. More research findings humble the Researcher much as more innovations do the same to the innovator

## **4. Conclusion**

Research and innovation are at advanced level of education and training. The graduands of Price will testify to what



I am saying. You are a rare breed and very few indeed in number. Your Postgraduate programme here is far richer and all encompassing than what goes on in a number of Postgraduate programmes in a number of our universities and institutions. Even for the graduands of PHIPTECH, from what you have gone through in this institution, you know is not common in the printing industry elsewhere in the society. The Bible says to whom much is given, much is required. You are our investments; you are God's handiwork. So, allow Him to do His bidden in you and through you. Anything less than you have received is not good at all and therefore not acceptable. CONGRATULATIONS! To conclude, let me thank the Peace House Leadership for establishing these Institutes and others. These Institutes are themselves innovations. I also thank the managements of these two Institutes and the faculty members. Above all, let me thank the Almighty God who thought it worthy to make us co-labourers with Him. To him be glory, honour, majesty and praise for ever and ever and ever.

5. Research is a systematic and structured investigation that seeks to expand knowledge, uncover new insights, and provide evidence-based understanding in various fields (Library and information Science Network,)

**Faith can provide a sense of purpose and direction for innovators**, especially when they face uncertainty, ambiguity, or failure. Faith can help innovators to persevere, adapt, and learn from their experiences, and to align their actions with their values and goals.

**Scripture** and the personal experience of **Christians** worldwide show that God uses **innovation** for humans to know more of Him, to communicate with Him, and to ultimately accomplish His earthly will for mankind.

Noah's Ark: One of the earliest **examples** of **innovation** in the Bible is the construction of Noah's Ark. God provided Noah with specific instructions to build an ark to preserve life during the flood (Genesis 6:14-16).

#### **Sources:**

Robert C. Allen, [The Industrial Revolution: A Very Short Introduction](#). Oxford: Oxford University Press, 2007  
 Claire Hopley, "A History of the British Cotton Industry." [British Heritage Travel](#), July 29, 2006 William Rosen, [The Most Powerful Idea in the World: A Story of Steam, Industry, and Invention](#). New York: Random House, 2010 Gavin Weightman, [The Industrial Revolutionaries: The Making of the Modern World, 1776-1914](#). New York: Grove Press, 2007  
 Matthew White, "Georgian Britain: The Industrial Revolution." British Library, October 14, 2009

# MEET PRICE SET **3**







#### NAME

**SAMUEL John**



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#### INSTITUTION ATTENDED

Federal University Oye-Ekiti, Ekiti



#### COURSE STUDIED

B. Eng Electrical/Electronics Engineering



#### DEPARTMENT IN PRICE

Mechatronics



#### SKILLS AQUIRED

Prompt Engineering, Vibe Coding, Web Automation & Scraping, Machine Learning, GIS Data Collection, Solar Farm Management, Embedded Systems, Epidemiological Modelling, Project Management, Leadership and Entrepreneurship.



#### ONLINE COURSES & CERTIFICATIONS

1. Networking Essentials 2. Google Cloud Essentials 4. Mathematical Modelling and Analytics 5. Career Planning



#### PROJECT WORK IN PRICE

- ✓ Low-cost Electric Vehicle for People Mobility
- ✓ Mobile App Development for a Self-driving, Voice-controlled Electric Car (Ongoing)
- ✓ Development of an Intelligent System for Modelling the Impact of Climatic Variables on Infectious Diseases in Nigeria
- ✓ Renewable Energy (Solar + Wind) Hybridization (ongoing)
- ✓ Long-Term Spatiotemporal Trends And Variability In Air Quality Across Northern Nigeria (Ongoing)
- ✓ Predicting Malaria Transmission Dynamics Under Changing Climate Patterns in Bauchi and Yobe States, North-East region of Nigeria (Ongoing)
- ✓ Mobile App for the Discipleship Hymn Book (Ongoing)
- ✓ WebApp to clip, export YouTube sermons as audio (Ongoing)

#### My PRICE Journey: Where Faith Meets Innovation

At PRICE, I experienced the transformative power of blending faith with technology. Immersed in a faith-driven tech environment, I honed my software development skills across projects in renewable energy, embedded systems, mobile app development, and AI-powered solutions. From automating data workflows to building intelligent systems that want to model climate impacts on infectious diseases, I led AI adoption that dramatically streamlined research and design processes. Each challenge became an opportunity to serve both people and God's mission. Working on renewable energy systems, embedded devices, and multidisciplinary research taught me to see technology as stewardship - every solution gave me a chance to innovate for the Kingdom. PRICE showed me that Christian professionals could stand at the forefront of innovation, addressing real-world problems while advancing the Gospel. For me, this journey was not just skill building, it is my calling now!





#### NAME



**UGOCHUKWU Faithful Chinaza**

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#### INSTITUTION ATTENDED



University of Nigeria, Nsukka

#### COURSE STUDIED



B.Eng Electronics Engineering

#### DEPARTMENT IN PRICE



Mechatronics



**SKILLS  
AQUIRED**



Embedded Systems, IOT with Arduino, Solar Farm Management, Computer Aided Design, Prompt engineering, Project Management, Leadership and Entrepreneurship.

- Team Collaboration – Coordination with maintenance and management teams
- Crisis Management – Handling system faults and overload situations



#### ONLINE COURSES & CERTIFICATIONS

- 1) Introduction to IOT and Embedded System
- 2) Introduction to IOT and Digital Transformation (CISCO)
- 3) Certificate of Participation in Seminar on Development and Application of Small Hydropower Standards for Belt and Road Countries- Hangzhou Regional Center for small Hydropower (HRC)
- 4) Networking Essentials (CISCO)
- 5) -Participation in the ICAMMDA international school on modelling and analytics
- 6) Introduction to Data Analysis Using Microsoft Excel



#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)

I came to PRICE feeling deeply confused about my career direction, but what began as a search for professional clarity became something far more transformative—a fresh encounter with the Lord. This journey has involved learning, relearning, and unlearning much of what I thought I knew. Through discipleship, my entire mindset is being reshaped. I am learning to anchor my academic and career pursuits in the foundational truth that Christ comes first—understanding that success flows from seeking His will and walking in obedience to Him at every step. This renewed perspective has given me tremendous confidence and is teaching me how to approach my career, academics, and life differently. I am beginning to see glimpses of what it means to walk with purpose, pursue excellence, and persevere with the confidence that comes from knowing I am not walking this path alone. My earnest desire is that I enter fully and mature in all of these.



#### NAME



**SUNDAY, Daniel Mungundik**

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#### INSTITUTION ATTENDED



**KADUNA POLYTECHNIC**

#### COURSE STUDIED



**HND-COMPUTER SCIENCE**

#### DEPARTMENT IN PRICE



**Information Technology**



**SKILLS  
AQUIRED**



Throughout the internship, he gained hands-on experience and developed skills in Prompt Engineering, Email Template, Product & Graphic Design, Full-Stack Web Development, Network Essentials, Project Management, Leadership and Entrepreneurship.



#### ONLINE

#### COURSES & CERTIFICATIONS

1. Networking Essentials - CISCO Networking Academy
2. Moral Foundations of Politics
3. Introduction to Risk Management – Coursera
4. Foundations of User Experience (UX) Design – Google
5. Introduction to the Internet of Things and Embedded Systems (IoT) - Coursera
6. Product Design University Boot-camp on Design Fundamentals and UI/UX Design - Product design university
7. Create High-Fidelity Designs and Prototypes in Figma – Google
8. Mathematical Modelling and Analytics of Infectious Diseases – ICAMMDA



#### PROJECT WORK IN PRICE

Design and Development of Peace House Institute of Vocational Training (PIVOT) School Management System (Group Project)

My two-year internship at Peace House Research and Innovation Center of Excellence was a holistic training that cultivated my hands, head, and heart. I developed a strong work ethics, discipline, and resilience through rigorous activities like ministerial labor, kitchen duty, and various projects. My intellectual skills were sharpened to think critically and creatively, enabling me to innovate and craft solutions "out of nothing." I gained extensive practical experience in working alongside mechatronics on the solar farm project, and experience in web development and product/graphic design. I was also exposed to leadership, entrepreneurship, and the use of AI tools for research and pitching. This consecrated training has equipped me to be a well-rounded and effective contributor, prepared for the future.





#### NAME



**UGORJI, Daniel Uchechukwu**

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#### INSTITUTION ATTENDED



**FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI (FUTO)**

#### COURSE STUDIED



**Mathematics (B.Tech)**

#### DEPARTMENT IN PRICE



**Information Technology**



**SKILLS  
AQUIRED**



Throughout the internship, he gained hands-on experience and developed skills in Prompt Engineering, Vibe Coding, Full-Stack Web Development, Cybersecurity & Network Essentials, Project management, Mathematical Modelling, Leadership and Entrepreneurship.



#### ONLINE COURSES & CERTIFICATIONS

Network Essentials, Infectious Disease Modelling,  
Supervise Machine Learning



#### PROJECT WORK IN PRICE

Design and Development of Peace House Institute of Vocational Training (PIVOT)  
School Management System (Group Project)

My Coming to PRICE is a testimony of the sweetness of taking God by His words and God's faithfulness in leading us at every time. A Journey that started first in response to God to come and internalized what I learnt in LEDEYO as a LEDEYO intern paved way for me to be admitted as PRICE intern. My stay in PRICE have created environment to internalize the truth of the new creation man, of living by faith, practical discipleship, leadership, Christian home building. I was taught to learn on how to learn and the principles of research to solve a problem. My stay in PRICE offered me opportunity to learn skills that I would not have afford to pay the prices. I appreciate the leadership of PRICE and give God all the praises.





**NAME**  
Owen W. BLAY JR

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**INSTITUTION ATTENDED**  
Starz University of Science & Technology, Liberia

**COURSE STUDIED**  
BIT (Bachelors Information Technology)

**DEPARTMENT IN PRICE**  
Information Technology

**SKILLS ACQUIRED**

Hands-on experience and developed skills in UI/UX, Mobile Development, Prompt Engineering, Vibe Coding, Basic Electronics and Solar Technology, Internet of things (IOT), Network Essentials, Project management, Leadership and Entrepreneurship.

**ONLINE COURSES & CERTIFICATIONS**

Certificate in User Interface/User Experience Design, Cisco Network Essential

**PROJECT WORK IN PRICE**

Enhancement of the Peace House Digital Library (A Mobile Book Application available on Google play store-Seed App)

Experience! Wonderful.

PRICE is more than a research center for me. It is a 'self-discovery' experience. Waking up day by day and discovering that you are becoming better than what you were the previous day in all aspect of a total man (Spiritually, professionally Character-wise, Capacity-wise, Mental and Emotionally); All of which are inspired from the very presence of God, the abundance of the word of God here and the 'toughness' of the institute under God.



#### NAME

**BOLATITO, Olaoluwa Samson**



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#### INSTITUTION ATTENDED

Federal University of Technology Akure



#### COURSE STUDIED

B. Tech (Physics Electronics)



#### DEPARTMENT IN PRICE

Mechatronics



**SKILLS  
ACQUIRED**



Throughout the internship, he gained hands-on experience and developed skills in IOT with Arduino, Hybridized Renewable Energy Optimization and off-grid management, Matlab/Simulink modeling, Scientific Research & Data Analytics, Leadership and Entrepreneurship



#### ONLINE COURSES & CERTIFICATIONS

1. Innovative, Sustainable and Clean Energy - Università di Genova
2. Green Investments: Renewable Energy - Asian Development Bank Institute (ADBI)
3. Data Analytics - Coursera (Google)
4. Project Management - Coursera (Google)
5. Technical Support - Coursera (Google)
6. Cisco Networking Essentials



#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)

**M**y coming to PRICE confirms God's intentionality over my life. From knowing Christ to character formation, clarity of career, and the right charisma and carriage, my time in PRICE has been transformative.

I was trained to live a Christ-centered life that pleases God, with every facet of the program intentionally designed to form Christ in us. These two years remain my reference point, a quarry where I was shaped to fit God's agenda for my generation.

Relating with men of deep intellect who sacrificially commit themselves to God's work broadened my vision. I also witnessed practical selfless living, centered on the principle of "Not I But Christ," which has redefined my life's ideology.

In all, PRICE has taught me that true fulfillment comes from obeying and serving the Lord. By His grace, I will continue in what I have seen and learned. God bless PRICE and Peace House.





#### NAME



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#### INSTITUTION ATTENDED



Nnamdi Azikiwe University, Awka

#### COURSE STUDIED



(B.Ed). Automobile Mechatronics

#### DEPARTMENT IN PRICE



Mechatronics



**SKILLS  
AQUIRED**

Throughout the internship, he gained hands-on experience and developed skills in Computer Aided Design, Solar farm Installation & Management, Metallurgical designs and fabrication, Project Management, Leadership and Entrepreneurship.



#### ONLINE COURSES & CERTIFICATIONS

1. Networking Essentials
2. Mathematical Modelling



#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)

I am fortunate to be in a place where God's Word is not only taught but practiced. One thing I have longed to see is how the Word of God is held with all integrity. I have been in discipleship for a long time, since 2016, but have not really maximized its full essence until I came to PRICE in 2023. I did not come to PRICE because of the skills that was advertised. God explicitly told me to come here, to have a first-hand experience of how His Word works. I have no better experience or testimony compared to the possibilities of experiencing how God's word works wonders in every area of a man's life. The power of God's Word in delivering me from sin, enjoying God's provision, and trusting in His Word in bringing about fulfilling purpose and destiny. I came pursuing and seeking discipleship from my own myopic point of view not knowing that in Christ lies innumerable possibilities and exposures. It was here God began working on my career and academic background. The exposure I got here brought about a paradigm shift in my pursuit of academics and career in fulfilling the purpose of God. The whole regrets I had going to the University and seeking to fulfill purpose were addressed in this place under God. My eyes were open to the possibilities in Christ and through Christ. In summary, this place happened to be a place where my heart was enlarged, my vision became clearer, my purpose refined and my capacity built to live for Christ. I must say, I got more than I bargained for.





#### NAME



**OBAYEMI, Mercy Ifeoluwa**

#### EMAIL



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#### INSTITUTION ATTENDED



Federal university of Technology Minna.

#### COURSE STUDIED



BTECH Food Science and Technology

#### DEPARTMENT IN PRICE



Life and Applied Science



**SKILLS  
AQUIRED**



Throughout the internship, she gained hands-on experience and developed skills in Food & Crop Preservation Techniques, Scientific Research & laboratory procedures, Data Collection and Analytics, Project Management, Leadership and Entrepreneurship, Culinary skills.



#### ONLINE COURSES & CERTIFICATIONS

- 1) Industrial Biotechnology
- 2) Introduction to Sensory Science
- 3) Writing in the Sciences
- 4) Data Analytics Essentials
- 5) Introduction to Data Science
- 6) Networking Essentials
- 7) Digital Awareness
- 8) Introduction to IoT and Digital Transformation
- 9) Python Essentials 1
- 10) English for IT 1



#### PROJECT WORK IN PRICE

Postharvest storage of orange Fruit using low-cost controlled atmosphere storage developed locally (Group project)  
Determining the Optimal Heating Temperature for removal of Nano/Micro plastics and Reducing Tap Water Hardness via EDTA Treatment (Group work)

**F**oremost, I thank God for His mercy that brought me into PRICE, and I will never take this privilege for granted. In my first year, I encountered the cross—the greatest deliverance that has ever happened to me. Thank you, Jesus.

Serving as a kitchen steward exposed me to living by faith, teaching me to depend on God for everything. The sessions with professionals who came to speak with us were also a great source of motivation.

The research I was involved in during the year of training helped me build strong relationships with my teammates, sharpened my analytical skills, and equipped me with principles that will guide me far beyond my time here.

Finally, the experience of discipleship has been deeply impactful, and I am grateful for the lasting influence of the resource persons in my life.



#### NAME

**OKEKE, Fortune Uzoma**



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#### INSTITUTION ATTENDED

Enugu State University of Science and Technology



#### COURSE STUDIED

B. Eng Mechanical and Production Engineering



#### DEPARTMENT IN PRICE

Mechatronics



**SKILLS  
AQUIRED**



Throughout the internship, he gained hands-on experience and developed skills in Computer Aided Design, IOT with Arduino, Solar farm Installation & Management, Metallurgical designs and fabrication, Project Management, Leadership and Entrepreneurship



#### ONLINE COURSES & CERTIFICATIONS

- 1) Introduction to applied data science with python
- 2) Mathematical Modelling and Data analytics
- 3) CAD-Autodesk
- 4) Initiating and Planning Projects



#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)



**D**uring my time at PRICE, I have gained hands-on experience in Mechatronics, engineering design, and applied research. My exposure covered both practical fabrication work and innovative problem solving aimed at real-world applications. I worked on the design, development, and testing of engineering systems, applying CAD tools such as Autodesk Inventor and integrating embedded systems using Arduino for automation.

Beyond technical skills, PRICE provided me with a platform for team collaboration, project management, and solution-oriented research. I participated in prototype development, troubleshooting, and optimization of engineering projects, bridging the gap between concept and functional product. Concerted and consistent discipleship in PRICE brought transformation to my life and profession.





|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| NAME                 | OKORO, Emmanuel Chinomso                                                            |
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| INSTITUTION ATTENDED | Covenant University, Ota, Ogun State                                                |
| COURSE STUDIED       | B. Eng. Electrical and Electronics Engineering                                      |
| DEPARTMENT IN PRICE  | Mechatronics                                                                        |
| SKILLS ACQUIRED      |  |

Throughout the internship, he gained hands-on experience and developed skills in Embedded Systems, Computer Aided Design, IOT with Arduino, Solar farm Installation & Management, Metallurgical designs and fabrication, Project Management, Leadership and Entrepreneurship

#### ONLINE COURSES & CERTIFICATIONS

1. Certificate of Participation in the ICAMMDA International School on Modelling and Analytics, June 2025.
2. Certificate of Attendance at Seminar on Development and Application of Small Hydropower Standards for Belt and Road Countries - Hangzhou Regional Center for Small Hydropower (HRC), May 2025.
3. Coursera Specialization Certificates in Renewable Energy, IoT Systems with Industrial Application with Design Thinking, An Introduction to Internet of Things
4. Professional Certificates in Google Project Management, Google IT Automation with

#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)

I am grateful to God for the opportunity of coming to PRICE. Looking back, I would say that the events, which preceded my coming, were divinely orchestrated. Though I did not understand much of it then, I am glad I heeded the call.

God used PRICE to prepare me for my journey ahead in life. To me, it feels like there must be a divine equipping, which I must have to give me an edge over the powers of this world, so as not to be overcome by it - and here was just that place of equipping!

I have never experienced such an intense training than I did while I was here. The regimented discipleship structure here was beneficial and quite necessary in my training and development, both spiritually and physically. All the exposures and experiences I survived here has proven to me that 'What doesn't kill you makes you stronger' and I am glad I have good stories to tell.

I thank God for locating me at the center of His work, exposing me to the life that lives by faith, wholly trusting and depending on Him for everything in life. Indeed, I have come to see that a life committed to the hands of God cannot be wasted.





NAME  
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INSTITUTION ATTENDED  
Modibbo Adama University of Technology Yola

COURSE STUDIED  
B.Tech PHYSICS

DEPARTMENT IN PRICE  
Information Technology

SKILLS ACQUIRED

Throughout the internship, he gained hands-on experience and developed skills in Solar Panel installation and Management, Android App Development using Flutter, Cybersecurity Operation (SOC), Networking Essentials, Leadership and Entrepreneurship.

- ONLINE COURSES & CERTIFICATIONS**
- 1) Cisco Networking Essentials
  - 2) Professional Google Cybersecurity (with eight courses, Cousera)
  - 3) ChatGPT and AI Tools (Udemy)
  - 4) Flutter and Dart (Udemy)
  - 5) HTML, CSS and JavaScript for web Developer (Johns Hopkins University, Cousera)
  - 6) Introduction to the Internet of Things and Embedded Systems (University of California, Irvine, Cousera)
  - 7) Interfacing with Arduino (University of California, Cousera)
  - 8) Strategic Communication in Technical Organisation (Johns HopKins University, coursera)
  - 9) Arduino Platform and C Programming (University of California, Cousera)
  - 10) Mathematical Modelling and Analytics of the Impact of Climate Variability and Environmental Change on Public Health (Infectious Diseases)

**PROJECT WORK IN PRICE**

Enhancement of the Peace House Digital Library (A Mobile Book Application available on Google play store-Seed App) (Group Project)

Give God All the Glory for the Great Experience and Exposures while in PRICE, Indeed I can boldly Say, Once I was blind but now I can See, A deep transformation and growth of my inner man through various instruments of Discipleships, Bible Study, brethren, floor group, and more which God employed to affect or grow the gift of the New creation Man/life I received in LEDEYO from the Lord. God's Mercy brought me to PRICE; God's mercy kept me through All my infirmities as a bruised reed and a smoking flask who have now been formed to a measure and have become The Rod of His Strength. i have heard, I have learned, i have seen, I have touched and I have been impacted with eternal life from ordinary men who were not mystic but simple, who gave their All. I have learnt the path to be more evolved and never to be small-minded in my pursuit for God and the life of Christ, I have gotten a clear and lasting sense in my mind. I have learned and been infected with the ability to Process knowledge through the Spirit of Christ in Research. In the depth of my thought. A window and a path through which to see the Life of Christ and Discipleship have been opened unto me, which I am now equipped with to live and carry all my life and offer to everyone who believes. This is my Greatest Richness.: To God be All the Glory.





#### NAME



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#### INSTITUTION ATTENDED



Hebrew University of Jerusalem, Israel

#### COURSE STUDIED



Msc. Agroecology and Plant Health

#### DEPARTMENT IN PRICE



Life and Applied Science



**SKILLS  
AQUIRED**



Throughout the internship, she gained hands-on experience and developed skills in Postharvest technology, Scientific Research & laboratory procedures, Data Collection and Analytics, Foundational R-programming for infectious disease modeling, Project Management, Leadership and Entrepreneurship.



#### ONLINE COURSES & CERTIFICATIONS

1. R programming certificate
2. What is Data science
3. Interfacing with Arduino
4. Introduction to Public speaking
5. CISCO- Networking Essentials
6. Introduction to Internet of Things
7. Developing the SIR Modelling
8. Foundation of Data Analysis with Pandas
9. Mathematical Modelling and Analytics of the impact of climate variability and environmental change on public health (infectious disease)



#### PROJECT WORK IN PRICE

Postharvest handling of orange fruits using low-cost innovative controlled atmosphere storage locally developed (Group project).  
Determining the Optimal Heating Temperature for removal of Nano/Micro plastics and Reducing Tap Water Hardness via EDTA Treatment (Group work)

I came to PRICE first to learn the life of Christ and for an eternal purpose, and then I found Christ Himself doing His work in my Life through my training and through many sufferings arranged by the Lord to sharpen my life.

This became a process of laying new foundation of life for me. Not all the lessons and trainings were easy, but I had to trust God through them that He was working something good in my life, and it is worth the process. I was struggling with my passion for research, but I found it in PRICE, I also found my calling and purpose in PRICE. Discipleship has also being a major blessing for me. My learning of Christ still continues as I progress from PRICE.





#### NAME



**EJIGBO, Samson Oluwasefunmi**

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#### INSTITUTION ATTENDED



Adekunle Ajasin University, Akungba-Akoko

#### COURSE STUDIED



B.Sc Plant Science and Biotechnology

#### DEPARTMENT IN PRICE



Life and Applied Science



**SKILLS  
ACQUIRED**

Hands-on experience and developed skills in Biomedical device design, Scientific Research & laboratory procedures, Foundational R & Python programming for infectious disease modeling and statistical analysis, Genomics and Bioinformatics Techniques, Leadership and Entrepreneurship



#### ONLINE COURSES & CERTIFICATIONS

- \* Introduction to Genomic Technologies
- \* Comparative and functional genomics (NGS DATA).
- \* Applications of genomics and Bioinformatics techniques in Cancer genomics.



#### PROJECT WORK IN PRICE

Development of handheld Neonatal Bilirubinometer.  
Determining the Optimal Heating Temperature for removal of Nano/Micro plastics and Reducing Tap Water Hardness via EDTA Treatment (Group work)

I would love to thank and appreciate the Lord Jesus Christ for my life, and particularly for bringing me here to PRICE. It is purely by His mercy, and for me, it is a great privilege. By the grace of God, I can boldly say that this training has achieved its 3-D aim in my life:

Training my head, hands, and heart for proper representation of Him in the marketplace. Here, I have seen God's prophecies over my life come to pass and experienced what it means to live out the Word repeatedly.

Two years ago, I came confused, burdened with fear, anxiety, and low self-image. Battles that threatened to cripple my calling in life. Today, these strongholds are broken, and I now have the liberty to serve Him without hindrance. I am going from here with a confident understanding of my God-given assignment in life.

Special thanks to all the "tutors and governors" the Lord has used to invest in my life, to shape me into who I am today. I trust God to keep me aligned with His will and, by His grace, surpass every expectation you may have for me, as I rise higher in His purpose until I see Him face to face.





#### NAME



**SALAMI, Habib Timothy**

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#### INSTITUTION ATTENDED



Lagos State polytechnic (LASPOTECH)

#### COURSE STUDIED



HND (PGD) PHYSICS WITH ELECTRONICS

#### DEPARTMENT IN PRICE



Mechatronics



**SKILLS  
AQUIRED**



Hands-on experience and developed skills in Embedded Systems, Computer Aided Design, IOT with Arduino, Solar farm Installation & Management, Metallurgical designs and fabrication, Mathematical modeling and data analysis, Project Management, Leadership and Entrepreneurship



#### ONLINE COURSES & CERTIFICATIONS

1. Networking Essentials (Cisco)
2. Data Analysis and virtualization with Python and Pandas (Coursera)
3. Internet of Things (IOT) (CISCO)
4. Mathematical modeling



#### PROJECT WORK IN PRICE

Construction of a Low-Cost Electric Vehicle for People mobility (Group project)

I am truly grateful to God for bringing me to PRICE at such a time in my life. These two years have been a journey of growth—learning to endure, to be patient, to obey, and to submit to God wholeheartedly. I now understand more deeply that my life is for Christ, not for myself, and that every choice should be made to please Him. PRICE has taught me how to work with people from different cultures, background, orientations and understanding; showing me the beauty of forgiveness, tolerance, forbearance, longsuffering and unity. Academically, I have gained valuable skills in Computer-Aided Design (Autodesk Inventor), AI tools, safety and health, and leadership. The fellowship, Bible studies, kitchen duties and floor group meetings have been a blessing, sharpening my faith and perspective. My time here has not just given me knowledge—it has shaped my heart, my character, and my walk with God.



## PROJECTS



## TRIP

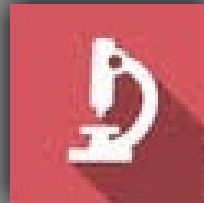
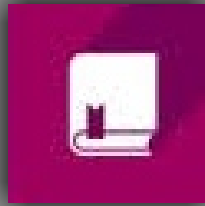


## CONFERENCE



## SITE DEVELOPMENT





**PRICE**

**PEACE HOUSE**  
**RESEARCH AND INNOVATION**  
**CENTRE OF EXCELLENCE**  
GBOKO BENUE STATE - NIGERIA

*"...not for price, nor reward..."*  
*Isaiah 45:13*

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