

PROFESSIONAL SUMMARY

I am an ardent, adaptable and competent Engineer/I.T professional and scholar with over 13 years of hands-on experience both on the field and in the classroom administering updated knowledge to students using cutting edge information and operational technologies to quickly transfer skills to students. My proficiency in both hard skills and soft skills and technical writing has made me vast in engaging with professionals, colleagues, students in the academia and to prepare me for the next frontier of engagement, innovation and competition.

EDUCATION

M.Eng. Electrical/Electronic Engineering (in-view 2025)

Abubakar Tafawa Balewa University (ATBU), Bauchi Nigeria.

- I am designing and developing a tracking system using RFID to track of books leaving and entering and the users of such books. This is to forestall theft, misplacement and the security and availability of such books/materials as at when due by the authorities.

M.Sc. Information Technology Jan. 2020

National Open University of Nigeria (NOUN)

Jos Study Center, Plateau State.

- I was able to implement a model that predicts into the future all the payment channels using available data. I employed big data analytics using regression algorithm.
My work exposed me to data analytics, visualization and modeling.

PGD. Electrical Electronic Engineering

Abubakar Tafawa Balewa University (ATBU), Bauchi

Feb. 2006

- I designed and constructed a microcontroller-based weight measuring device to measure a quantity between 0.1g to 1kg. This is a special kind of measuring device mostly used in instrumentation lab.

B.Sc. Physics, (Electronics Option)

University of Jos, Jos Nigeria.

Sept. 2000

- I was able to mathematically model oscillations that occur both in mechanical and electrical systems and was able to diagnose when it happens usually above the critical frequency (at resonance).

Diploma, Computer Studies

Abubakar Tafawa Balewa University (ATBU), Bauchi Nigeria.

Sept. 1998

- My achievement was to be able to decipher the various computer software systems their purposes, and limitations and the future outlook in terms of their scalability, interoperability as technology advanced.

Certificate of Proficiency in Info. System Management (CPISM)

Aptech Port-Harcourt Centre

Aug. 2002

- I was professionally trained on using Microsoft Suites in the management of information system. I am very proficient in the use of all the application packages.

Certificate: Computer Network, Operating Systems, E-mail, Internet Technologies & Database.
University of Jos June, 2000

- I can use and train student on the basic networking concepts, operating systems, the internet, email and database technologies.

EXPERIENCE

Part time Lecturer, Plateau State Polytechnic Sept. 2015 - Till Date

- Curriculum planning, lecture and supervise students' project. Courses include Computer system troubleshooting, Management Information System (MIS), Digital Electronics, Computer, Repairs, Maintenance & Troubleshooting I&II, Digital Computer fundamentals I&II. Systems Design & Analysis, Computer Networking.
- Prepared exam scripts and score students. Coordinate any other exams as deem fit by the HOD of my department.
- Supervise student project work both for the (Ordinary National Diploma and National Diploma).

Adjunct Instructor, NAPTIN

Lafia, Nassarawa State.

Feb. 2015

- Prepared the curriculum and lecture notes in line with the training contents of Power Distribution Substation Operators (DSO)
- Deliver training, assess students at the end of training and supervise field work.
- Send performance report to the coordinator for assessment.

Part Time Lecturer, NTA TV COLLEGE

Rayfield Jos, Plateau State.

April 2013 - Till Date

- Devised the curriculum and train on Computer and its applications, Electronics courses e.g. Microprocessor, Computer Hardware I & II & Networking and Computer Programming. Carry out laboratory activities. Train short course participants on ICT technologies and Online applications.
- Train on the New Media trend; *online media*.
- Prepared exam scripts and score students. Coordinated any other exams as deem fit by the HOD of my department. Supervise student project work.
- External Exam Moderator to the Dept. of TV Engineering

Head I.T, Newage Network

Kaduna Kaduna State,

Aug. 2009 – Jan. 2012

- I projected the unit to a functional department in the organization. Coordinated & train on on-the-job hands-on I.T training for staff of the various dept. with a view to enhance their effectiveness and productivity.
- Designed and developed an I.T policies and processes for the dept with a view to optimally maximize available resources.
- Devised a schedule for all computer systems that enable monitoring & check for preventive and maintenance work.
- Delivered a schedule for hardware repairs & maintenance of the highly specialized editing computer system.
- A team member that provided exceptional I.T processes/procedures to meet current standards for the organization. (*Member, Processes /Procedures Committee*)

Computer Trainer/Engineer

Institute of Governance & Social Research (IGSR)

Jos Plateau State

Nov. 2008–June 2009

- Repair & maintenance of all computer systems into optimal use for productivity.
- Deliver up to date training on computer applications to students/participants

Resource Person, 3rd Armoured Division, Finance

Maxwell Khobe Cantonment Jos-Plateau State

April – Oct. 2006

- Designed and implemented local area network for the unit.
- Configured the Hardware for use.
- Delivered on the job computer training to soldiers and officers of the unit.

Administrator/Instructor, Mordi Software Company

Jos Plateau State

May 2003 – June 2008

- Developed the curriculum for the training department. Trained individuals, government officials, military personnel, private organizations on the use of the computer systems and its applications.
- Brought in huge accounts through marketing of its training activities.
- Prepared and coordinated all the activities of the training arm of the company by ensuring tact, and responsibility.
- Secured a large training class for professionals in government and private organizations from specialized short course training.

SKILLS**GENERALSKILLS**

- Trainer with a good team spirit with an open heart to accommodate
- IT system knowledge.
- Flexible work schedules and working with little or no supervision (independence).
- Ability to Effectively Communicate at various levels with individuals and groups.
- Ability to think Outside the Box (Initiative).
- Open to New Things and willingness to Learn.
- Friendly and Helpful with a Strong Work Relationship (Cooperation & Collaboration).

CORE SKILLS

- Systems Experience: Windows (Client & Server) family, Repair & maintenance.
- Language Experience: Data Mining, Machine Learning, Cyber-Security skills and Technical Writing skills. HTML, Windows & Database programming (PHP MySQL, Python), WEKA, Big Data Technology, Web based & database application, Internet/ Intranet technologies & Computer Networking. Social media skills.
- Analysis & Visualization Tools: Microsoft Excel, Google Analytics, MATLAB.

PROFESSIONAL DEVELOPMENT/TRAINING WITH DATES

EC-Council University

Jan. 2025

Decoding Cyber Threats: A Deep Dive into Modern Threat Intelligence

EC-Council CyberTalks

Feb.2025

Securing Your Network: The Basics Every Network Administrator Should Know*(ISC)2 Self-Paced Training – 1M*

Dec. 2022

(ISC)2 Certified in Cybersecurity (CC)

SkillUP by Simplilearn
Introduction to Internet of Things (IoT)

Dec. 2021

SkillUP by Simplilearn
Introduction to Cyber Security

Nov. 2021

WEBINAR ATTENDED

Simplilearn
Applying Machine Learning to Predict Consumer Spending

Simplilearn
Trends in Digital Marketing for 2022

Nigerian Institute of Electrical Electronic Engineers (NIEEE)
Introduction to Artificial Intelligence Methods using Matlab.

PROFESSIONAL CERTIFICATION

• **MICROSOFT CERTIFIED PROFESSIONAL (MCP)** **June 2010**

JOURNAL PUBLICATIONS

Odumu, W.O, & Enya, E.B (2025). Bridging AI Literacy Skill Sets Gap: A Critical Priority Now and the Future in Developing Countries. *Newport International Journal of Scientific and Experimental Sciences (NIJSES)*, Vol.6, Issue 1, pp 16 – 26.
<https://doi.org/10.59298/NIJSES/2025/61.1626>

Odumu, W.O, Gwaivangmin, B.I & Adewoye, A.P (2025). Safeguarding National Critical Energy Infrastructure using Cybersecurity Frameworks and Collaborative Approach for a Resilient Energy Future. *Newport International Journal of Scientific and Experimental Sciences (NIJSES)*, Vol.6, Issue 1, pp31 – 47. <https://doi.org/10.59298/NIJSES/2025/61.3147>

Wesley Odeh Odumu, Ezekiel Endurance Chukwuemeke Igbonoba (2022). Big Data Mining Model to Predict Electronic Payment System using Machine Learning. *SSRG International Journal of Recent Engineering Science (IJRES)* ISSN:2349-7157/<https://doi.org/10.14445/23497157/IJRES-V912P102>. Volume 9 Issue 2, 7-17.

Odumu, Wesley (2021). 5G Network Technology and its Security Implications on Mobile Network Operations (MNOs) in Nigeria. *International Digital Organization for Scientific Research (IDOSR) Journal of Applied Sciences* 6(1): 33 – 44. ISSN: 2550-7931

Odumu, Wesley (2019). Adoption of E-government in Nigeria to enhance Government–Citizen Communication and Participation of the Grassroots/Local councils. *International Digital Organization for Scientific Research (IDOSR) Journal of Experimental Sciences* 4(1) 30-45., ISSN: 2579-0781

Caleb, Nanchen Nimyel, Alfred, Nanpak Albert, Odumu, Wesley (2018). Security Of Unmanned Aerial Vehicles: A Literature Review and Research Directions. *American Journal of Engineering Research (AJER)* Vol. 7, Issue-10, pp-106-109

Odumu, O.W, Mazhinyi, T & Nnegha, I (2017). Digital Switchover in Nigeria: A Robust Engineering Model for Rapid Transformation (Prospects, Benefits and Challenges)

Yahaya, Ogbe Agbaji & Odumu, Wesley (2017). Information Repackaging: A Panacea for Libraries and Information Resource Centres in Nigeria.

International Journal of Business and Management Invention ISSN (Online): 2319-8028, ISSN (Print): 2319-801X, www.ijbmi.org\\Volume 6\\June 2017\\PP-59-63

Wesley et al (2017). Computer Mediated Communication and the New Media: Trends, Dynamics and the Impact on the Practice of Journalism in Nigeria.

NTA College Journal of Communication Vol. 1 No. 1 2017.

CONFERENCE PAPER PARTICIPATION & PRESENTATION

- ✓ **A Review of Blockchain-Based E-Voting Technologies: Its Potential To Strengthen Nigeria's Electoral Processes and Management.** A Technical Paper Presenter at the 19th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT 2023) "Kano 2023" of the Nigerian Institute of Electrical Electronics Engineers (NIEEE) with the theme *The Future of Digital Innovations in Nigeria held 9th – 13th October, 2024 Kano State*
- ✓ **Social Engineering Cyber Threats and Attacks: A Growing Concern and Call To Action for Engineers.** A Technical Paper Presenter at the 18th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT 2022) of the Nigerian Institute of Electrical Electronics Engineers (NIEEE) with the theme *Professionalism and Standardization in Rapidly Evolving Industries. 10th – 14th October, 2022 Oke-Mosan, Abeokuta.*
- ✓ **Adopting and Outsourcing the Smart Energy Metering System as a Control Measure for Feedback to the Energy System Stakeholders in Nigeria.** A Technical Paper Presenter at the 17th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT 2021, Virtual) of the Nigerian Institution of Electrical Electronics Engineers (NIEEE) with the theme *The Future of Nigeria's Energy Landscape: Frontier for National Development. Oct. 11th – 14th 2021.*
- ✓ **Integrating E-Learning Tools to facilitate Engineering Education in a COVID-19 Pandemic era: A Review of Nigerian Universities' Experience.** A Technical Paper Presenter at the 17th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT 2021, Virtual) of the Nigerian Institution of Electrical Electronics Engineers (NIEEE) with the theme *The Future of Nigeria's Energy Landscape: Frontier for National Development. Oct. 11th – 14th 2021.*
- ✓ **5G Network Technology and its Security Implications on Mobile Network Operations (MNOs) in Nigeria: A Technical Paper Presenter at the 17th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT 2021) of the Nigerian Institution of Electrical Electronics Engineers (NIEEE) with the theme *EMERGING TECHNOLOGIES: Driving Energy and Communications Development Oct. 12th – 14th 2020 (VIRTUAL).***

- ✓ **Incorporating Monitoring Standards in Building Design, Materials and the Environment for Safety and Reliability in Nigeria: An Engineering Perspective.** A technical paper presenter at the **National Engineering Conference of the Nigeria Society of Engineers “Kano 2019”** with the theme *Building Resilient Infrastructure to Promote Sustainable Industrial Growth*. 2nd – 6th December, 2019.
- ✓ **Big Data Security and Privacy Issues in E-Government: Transforming Government Services.** A Technical Paper Presenter at the **15th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT)** of the **Nigerian Institution of Electrical Electronics Engineers (NIEEE)** with the theme *Managing Power and Communications in a Digital Economy* held 7th – 11th October, 2019.
- ✓ **A Framework for developing an Educational Data Mining for Tertiary Institutions in Nigeria: A Review of Technologies and Applications.** A paper presenter at the **1st National Conference of the Schools of Science & Engineering Technology @ Plateau State Polytechnic, Barkin Ladi** with the theme *The Role of Science and Engineering in the Attainment of Sustainable Development in Nigeria* held from 6th – 8th November, 2019.
- ✓ **Adoption of ICT in Ecotourism in Nigeria as a Panacea for Economic Growth and Development.** A technical paper presenter at the **National Engineering Conference of the Nigerian Society of Engineers “Abuja 2017”** with the theme *Diversification of Nigerian Economy: Engineering Perspective* held November, 20th – 24th 2017
- ✓ **Adoption of E-government in Nigeria to enhance Government-Citizen Communication and Participation of the Grassroots/Local councils.** A technical paper presenter at the **13th INTERNATIONAL CONFERENCE AND EXHIBITION ON POWER AND TELECOMMUNICATIONS (ICEPT)** of the **Nigerian Institution of Electrical Electronics Engineers (NIEEE)** with the theme *Sustainable Economic Development using Power and Communications* held 9th – 13th October, 2017.
- ✓ **An Evaluation of ICT Utilization in the implementation of Treasury Single Account (TSA) in Plateau State.** At the **4th National Conference of Academic Staff Union of Polytechnics Tin City 2016** with the theme: *Nigeria at Cross Road: Challenges and Prospects of Economic Development*.

RESEARCH WORK

- ✓ **Big Data Analytics: A Data-Driven Approach to predict the usage of Electronic Payment Channels Transactions in Nigerian Banking Sector**
A thesis submitted as the requirement for the award of Master of Science (MSc) in Information Technology, National Open University of Nigeria (NOUN) Abuja Jos Study Center. Nigeria.
- ✓ **Design and Construction of a Microcontroller Based Weight Measurement System**
A mini thesis submitted as the requirement for the award of Master in Engineering (M Eng) in Electrical Electronics Engineering by the dept. of Electrical Electronics Engineering Technology, Abubakar Tafawa Balewa University (ATBU) – Bauchi State, Nigeria.

✓ **Design and Construction of Digital (DC) Voltmeter**

A thesis submitted as the requirement for the award of Post Graduate Diploma in Electrical Electronics PGDEE (Hons) by the dept. of Electrical and Electronics Engineering Technology, Abubakar Tafawa Balewa University (ATBU) – Bauchi State, Nigeria.

✓ **Oscillation in Mechanical and Electrical Systems**

A thesis submitted as the requirement for the award of Bachelor of Science, Physics (Electronics option) University of Jos – Plateau State, Nigeria.

✓ **A Survey of Computer Software Systems**

A thesis submitted as the requirement for the award of Diploma in Computer Studies, dept. of Science and Technology Abubakar Tafawa Balewa University (ATBU) – Bauchi State, Nigeria.

PROFESSIONAL BODIES AND PARTICIPATORY ACTIVITIES

Member, International Association of Engineers (IAENG)

Member, Nigeria Society of Engineers (NSE) served as *Publicity Secretary* 2022 -2024

Member, Nigeria Institution of Electrical Electronic Engineer (NIEEE) served as *Technical Secretary* and *Vice Chairman Embedded Technologies* 2022 – 2024; 2024 till date respectively.

Council for the Regulation of Engineering in Nigeria (COREN) in-view

Hobbies and Research Interests

Volunteer training students on the use of Computer in answering computer-based test, teaching programming skills, and repair and maintenance, demonstrated leadership and technical skills.

Cybersecurity, Big Data Analytics, Embedded Systems, Machine Learning, Artificial Intelligence, Cloud computing and Networking.

REFEREES

1. Professor John Kwaha
Department of Physics,
University of Jos
P.M.B 2084, Jos – Plateau State.
0803 873 9372
2. Dr. S.M Yarima
Department of Electrical & Electronics Engineering and Director, ICT
Abubakar Tafawa Balewa University, (ATBU) Bauchi,
P.M.B 0248, Bauchi State – Nigeria.
3. Dr. Nentawe Yusuf Gurumdimma
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University of Jos – Plateau State.
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