John Amanesi Abubakar

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CAREER OBJECTIVE

Passionate about power system design and renewable energy, I am dedicated to driving sustainable solutions for a greener future. With a strong foundation in power system engineering and expertise in utilizing cutting-edge technologies, I have contributed to the field through my research and publications on power system optimization and AI applications. My journey in this field has allowed me to leverage tools such as HOMER, MATLAB/Simulink, Digsilent PowerFactory, and CAD software to develop innovative solutions and improve system performance. I thrive on tackling complex challenges and finding practical solutions that optimize energy efficiency and grid integration. Throughout my career, I have collaborated with multidisciplinary teams to design and implement renewable energy projects, combining my technical knowledge with a keen understanding of environmental and economic factors. I am passionate about harnessing the power of renewable resources to reduce carbon footprint and create a sustainable energy landscape.

EXPERIENCE

RESEARCHER, Bologna, Bologna

Rekeep, June 2023-Present

- Conducting cutting-edge research in the field of energy management with the aid of Digital Twin

ASSISTANT LECTURER, Ota, Ogun State

Covenant University, February 2021-May 2023

- Played a vital role in teaching and guiding undergraduate students in relevant fields, such as Power Systems, Renewable Energy, Control Systems, and Artificial Intelligence
- Delivered lectures, conducted practical sessions, and facilitated discussions on Conventional and non- conventional sources, modern and digital control systems, Artificial Neural Network
- Fostered a dynamic learning environment by integrating theoretical concepts with real-world applications - Engaged students through interactive discussions and hands-on projects
- Contributed to curriculum development efforts to ensure relevance to industry standards, the accreditation body for COERN and NUC (Covenant University Chapter)
- Collaborated on research projects, resulting in publications in reputable journals and conference presentations
- Provided mentorship and guidance to students, supporting their research projects and fostering critical thinking and problem-solving skills
- Participated in collaborative initiatives with industry partners, gaining practical insights and expanding professional network -

DESIGN ENGINEER, Ibadan, Oyo State

Kinetron Engineering and Safety, January 2019-December 2019

- Modeling and Design of Fuel Tanker using Autodesk Inventor - Modeling of Cold Storage Room using Solar Panel and Wind Turbine as source of Power Supply - Design of Palm Oil Expeller, Thresher and a Boiler for a mini Palm Oil Production Firm

MINISTRY OF WORKS AND TRANSPORT, Ibadan, Oyo State

Ministry Of Works and Transport, December 2018-October 2019

- Design and wiring of building plans using AutoCad - Electrical wiring of public buildings

ELECTRICAL ENGINEER, OTA, Ogun State

Covenant University Power Plant, January 2018-March 2018

- Installation of 5 1.2MW Gas Fired Engine Generators
- Synchronization of Gas turbine with the Gas Fired Generators

INTERN, Port Harcourt, River State

Transmission Company of Nigeria, May 2016-August 2017

- Maintenance on 132KV Transmission Lines from Ahoada to Yenegoa.
- Restringing of 132KV Transmission Line and repair of Line-cut.
- Trained new IT students on the operation of the station.
- Troubleshooting and tracing of Faults.
- Issued work permit to maintenance workmen.
- Collected Load readings, Transformer readings (Oil temperature and winding temperature) and also Load readings from different sub-stations daily.
- Conducted Insulation resistance test, Polarization Index Test, Transformation ratio test on power transformers.
- Carried out CT ratio test using an omicron.
- Carried out Key Performance Index (KPI).

EDUCATION

DOCTOR'S DEGREE IN ENERGY MANAGEMENT CANDIDATE, Bologna, Italy

Alma Mater Studiorum – Università di Bologna, Expected graduation
November 2025

MASTER OF ENGINEERING - MENG IN POWER SYSTEM, Ogun State, Nigeria

Distinction

Covenant University, January 2022

BACHELOR OF ENGINEERING - BE IN ELECTRICAL AND ELECTRONICS ENGINEERING, Ogun State, Ota, Nigeria

First Class Honor

Covenant University, January 2018

SKILLS

Microsoft Office | Simulink | HOMER | Machine Learning | Digsilent Powerfactory | ETAP | Neplan | PowerWorld Simulator | Researcher

CERTIFICATIONS

- MATLAB/Simulink
- Autodesk Inventor
- AutoCAD 2D drafting and 3D Modelling
- Autodesk Solidworks

HONORS & AWARDS

- Outstanding Leadership and Service - Association of Electrical and Information Engineering Students (AEIES) Apr 2018
- Student Leadership Award - Covenant University Oct 2021
- Service Award - Covenant University Oct 2021

PUBLICATIONS

- Renewable Energy in Rural Economy: Nigeria
- Assessing the Technical Offshore Wind Energy Potential in Lagos, Nigeria
- Critical Review of Fault Detection, Fault Classification and Fault Location Techniques for Transmission Network
- The Impact of Stand-Alone Systems in Nigeria's Energy Distribution Sector and Present Day Challenges Faced
- Unsymmetrical Faults Analysis Based on Artificial Neural Network and Circuit Breaker Selection Using 33-kV Port-Harcourt Transmission Network
- Development of a Sign Language Learning Web Application Based on Machine Learning Algorithm