
ABDULAHI OLAJIDE AFOLABI

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RESEARCH INTEREST

Artificial Intelligence for smart and resilient energy systems; digitalization of power systems through machine learning, IoT, and real-time data analytics; integration and optimization of renewable energy in smart grids; AI-based fault detection, predictive maintenance, and intelligent control of distributed energy systems.

EDUCATION

Federal University Oye-Ekiti

Ekiti, Nigeria

Bachelor of Engineering in Electrical and Electronics Engineering (In View)

May 2022 - July 2026

Current CGPA: 4.30 / 5.0 - Second Class Honors (Upper Division) Top 10%

Federal Polytechnic Offa

Offa, Nigeria

National Diploma in Electrical and Electronics Engineering

June 2018 - December 2020

CGPA: 3.54 / 4.0 - Distinction Top 5% [\[view\]](#)

Relevant Coursework: Power Systems, Signal Processing, Electrical Machines, Industrial & Power Electronics, CAD, Digital Communication and Microprocessors

TECHNICAL SKILLS

- Programming: Python, C, MATLAB, Octave
 - Electrical Systems: Circuit Design, Troubleshooting, Transformer Diagnostics, SCADA-like System Monitoring and Control
 - Embedded Systems: Arduino, Sensors, Microcontrollers
 - Data Analysis: Data Analysis and Visualization
 - Software: Microsoft Word, Excel, PowerPoint
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RESEARCH EXPERIENCE

Undergraduate Researcher

May 2024 - July 2025

Federal University Oye-Ekiti, Department of Electrical and Electronics Engineering

- Conducted research on IoT-based smoke detection systems
 - Performed literature review, data collection, and analysis
 - Assisted in technical presentation preparation for conferences
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TECHNICAL EXPERIENCE

Engineering Trainee | Transmission Company of Nigeria

March 2025 - Present

- Performed transformer maintenance and diagnostic tests
- Gained hands-on experience with SCADA-like control systems for remote transformer circuit breakers and isolators monitoring and control
- Co-developed prototype for Transformer Ratio Test Kit
- Logged and analyzed transformer faults for smart grid resilience
- Supported real-time data acquisition and performance evaluations
- Prepared technical reports to support data-driven system performance evaluations

Industrial Trainee | Ogo - Oluwa Engineering Workshop

July 2019 - January 2020

- Designed and assembled electronic circuits
 - Diagnosed and repaired electronic systems
 - Developed embedded systems using Arduino for IoT applications
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PROJECTS

1KVA Solar Power System With Automated Change Over

December 2020

Federal Polytechnic Offa, National Diploma Final Year Project

- Designed and implemented a solar power system with automated grid-switching
- Integrated sensors and relays for smart grid compatibility

Design and Construction of 24V Automated Battery Charger with Auto Cut-off

July 2019

- Built charger system using Zener diode cutoff control
- Improved charging efficiency and battery safety

CERTIFICATIONS

IoT and Cloud Computing, Yonsei University | [CERTIFICATE](#)

May 2025

MATLAB, NIPES | [CERTIFICATE](#)

May 2025

Python Development Professional Certificate, Microsoft

In Progress

Azure AI & ML, 3MTT X Teknowledge X Microsoft

In Progress

Data Science Professional Certificate, IBM

In Progress

Software Development, Power Learn Project

In Progress

LEADERSHIP EXPERIENCE & VOLUNTEERING

Senator - Engineering Constituency | FUOYE Student Union Senate Council

June 2024

- Represented the Faculty of Engineering, advocating for engineering student welfare and academic improvement
- Wrote and sponsored impactful bills, and participated in policy-making sessions to support student innovation, digital literacy, security and campus development.

Director of Welfare | National Association of University Students, Ekiti C.M.C

May 2025

- Promoted student welfare and academic standards across tertiary institutions in Ekiti State
- Organized a webinar on How to Balance Academic Excellence, Wellbeing, and Social Life

Digital Skills Campaign Volunteer | Ekiti Student Yoma Skill-Up Program

May 2025 - Present

- Led campus awareness and engagement campaigns on sustainable development and digital empowerment through the Yoma platform
- Registered over 50 students for free digital upskilling in tech fields

Academic Consultant (Peer Mentor) | Federal University Oye-Ekiti, Nigeria

May 2022 - Present

- Mentored over 300 engineering students in coursework and research

PROFESSIONAL MEMBERSHIPS

- Member, International Association of Engineers (IAENG) and its Societies (AI, Electrical Engineering, Internet Computing)
- Student Member, National Institute of Professional Engineers and Scientists (NIPES)
- Member, Nigeria Institute of Electrical and Electronics Engineering Students (FUOYE Chapter)

LANGUAGE

English: Fluent

REFERENCES

Available on request