EMMANUEL OLUDARE EJIFOLABI

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PROFESSIONAL SUMMARY

Motivated and detail-oriented distinction graduate of Electronic and Telecommunication Engineering with a strong interest in wireless communications, signal processing, and data-driven research. I have applied my skills to practical projects, including designing a solar inverter system and developing a machine learning tool that uses satellite data to improve rural telecom coverage. I'm especially passionate about using engineering and AI to solve real-world problems, particularly in underserved communities.

EDUCATION

Federal Polytechnic Ede, Osun State, Nigeria.   2025
Higher National Diploma (HND) in Electrical Electronic – Telecommunication.
Final Grade: (Distinction)   GPA: 3.68/4.0
Thesis Title:
Design and Construction of 2.5kVA Solar Based Inverter System.

Federal Polytechnic Ede, Osun State, Nigeria.   2022
National Diploma (ND) in Electrical and Electronic Engineering.
Final Grade: (Upper Credit)   GPA: 3.37/4.0
Thesis Title:
Design and Construction of 2kVA Inverter System.

RESEARCH INTERESTS

Wireless Communications • Signal Processing • Geospatial Machine Learning • Artificial Intelligence • Satellite Remote Sensing • Neuromorphic Engineering • 6G and Sustainable Telecommunication Systems

SKILLS AND COMPETENCES

Laboratory: Signal analysis with oscilloscopes and spectrum analyzers, RF and antenna testing, inverter circuit design and testing, embedded systems prototyping, soldering and fault diagnostics, satellite data preprocessing. | **Software & Analytical Tools:** Python, MATLAB/Simulink, QGIS, Google Earth Engine, Multisim, LaTeX, Git, Microsoft Office. | **Personal Strengths**: Strong analytical and problem-solving skills, effective communicator, research-oriented mindset, adaptable and self-driven, passionate about real-world applications of engineering and AI, teamwork and leadership experience.

RESEARCH EXPERIENCE

Geospatial Machine Learning for Mapping Telecom Coverage   2025
- Led the development of a satellite data-driven tool for identifying telecom coverage gaps across West Africa.
- Utilized Sentinel-2 data and Python-based ML models for land cover classification (cocoa, rubber, oil palm).
- Applied spatial analysis and forecasting algorithms to recommend cost-effective telecom tower placements.

TEACHING EXPERIENCE

Academic Tutor.   2023 – 2025.
School of Engineering, Federal Polytechnic Ede, Nigeria.
- Prepared academic materials and organized tutorials for colleagues and other students at lower levels.
- Established good reading culture among colleagues by distributing the class into several reading sub-groups.

INDUSTRIAL EXPERIENCE

Installation Technician   May 2025 - Present
IHS Towers, Abuja, Nigeria.
- Conduct routine inspections and resolve signal and power issues.
- Support network optimization through field measurements and corrective maintenance.

Data Science Intern (Remote)   Feb. 2024 – May 2025

Univelcity, Lagos, Nigeria.
- Applied data analytics to real-world datasets in engineering and telecom domains.
- Performed data preprocessing, visualization, and model experimentation using Python.
- Contributed to a rural network planning initiative using satellite data and QGIS tools.

Electrical Maintenance Technician   April 2022 – April 2023

Badmus Electrical Installation, Ikonifin, Nigeria.
- Troubleshot circuit issues and performed corrective maintenance on-site.
- Supported solar power system and inverter installation projects.

Broadcasting Engineering Intern.   June 2021 – Sept. 2021.

Reality Radiovision Services, Iwo, Nigeria.
- Assisted in the daily maintenance of studio and transmitter systems.
- Participated in equipment inspections and signal testing procedures.
- Conducted routine checks on UPS systems and backup power units.

VOLUNTARING AND LEADERSHIP EXPERIENCE

Secretary, National Association of Elect/Elect Engineering Students (NAEEES, FPE)   Dec. 2023 – Nov. 2024.
- Kept track of meeting notes and handled all official communication between students, staff, and the association.
- Helped organize departmental events like seminars and workshops, making sure everything ran smoothly.
- Worked closely with other executives to plan activities, write proposals, and keep students informed and involved.

Secretary, National Association of Ola-Oluwa Students, National HQTR (NAOS)   Jan. 2024 – Jan. 2025.

- Handled all official communication and kept clear records of meetings, decisions, and action points.
- Supported the planning and smooth execution of student programs, including town hall meetings and community outreach.
- Worked with other executives to keep members informed, resolve issues, and strengthen the bond among students from Ola-Oluwa Local Government.

Relation Officer, Federation of Iwoland Student Union (FILSU, FPE)   Dec. 2023 – Oct. 2024.

- Acted as a link between the union and other student bodies, helping to build strong relationships and partnerships.
- Shared important updates and announcements with members, making sure everyone stayed informed and engaged.
- Helped organize events and represented the union at inter-community meetings and student forums.

AWARDS AND HONOURS

Nigeria Scholarship Award (Min. of Education): Outstanding Academic Performance (2024).

Federal Polytechnic Ede Scholarship Award: Best Electrical and Electronic Student of 2022/2023 Academic Session.

FPE Alumni Association Merit Award: Most Outstanding Electrical and Electronic Student of the Year (2023).

Iwo Progressive Group (IGP) Scholarship Award: Best Indigenous Polytechnic Student (2024).

National Association of Elect/Elect Engineering Students Award: HND Scholar of the Year 2024.