Semilogo Olusola OGUNGBURE

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ABOUT ME

I am a recent master's graduate in Electrical Engineering, with practical knowledge in Energy Systems such as power distribution, automation, and system design. I am passionate about renewable energy and sustainable electrification, demonstrated through my hands-on experience in rural electrification projects. With strong skills in AI, power system design, and automation, I aim to apply my knowledge in technical services for ENGIE's maintenance and power plant operations. I am committed to supporting energy transformation by ensuring high-performance and reliable energy distribution systems.

WORK EXPERIENCE

08/2023 – 09/2024 Antwepen, Belgium
DATA ENGINEER| AGFA-GEVAERT GROUP

- Developed and deployed AI/ML models for product quality analysis using sensor data and electrical engineering principles.
- Integrated AI/ML systems with electrical infrastructure to ensure real-time monitoring and hardware compatibility.
- Monitored and optimized model performance, addressing errors and adapting to evolving production requirements.

11/2019 – 08/2021 Lebanon
FIELD ENGINEER | IPT POWERTECH - IHS TELECOM TOWER

- Designed, configured, and deployed network infrastructure while ensuring compliance with DCDG, RMS, and MTM solutions.
- Conducted monthly preventive maintenance (PPM) audits and generated reports.
- Analyzed maintenance data using Python and Excel to optimize resource allocation and predict potential failures.

06/2015 – 11/2015 Akure, Nigeria
SUBSTATION ENGINEER | BEDC PLC

- Project featured on Electrical Engineering Portal's publication: "11/0.4kV SS Nigeria" (Electrical Portal).
- Conducted load flow, short-circuit, and stability analyses to optimize substation performance and reliability.
- Designed a 500kVA, 11/0.415kV substation for rural electrification using AutoCAD.

EDUCATION AND TRAINING

09/2021 – 09/2024 Brussel, Belgium
MASTER OF SCIENCE IN ELECTRICAL ENGINEERING | VRIJE BRUSSELS UNIVERSITEIT (VUB)

Focus Areas: Renewable energy, power systems, machine learning, and IoT applications in power distribution.

Website vub.be | **Thesis** Enhancing Product Quality through the Coupling of Process Data and Inspection Data Using Artificial Intelligence

06/2011 – 06/2016 Akure, Nigeria
BACHELOR'S IN ENGINEERING | FEDERAL UNIVERSITY OF TECHNOLOGY AKURE (FUTA)

- **Focus Areas:** electrical systems, communication protocols, automation, and embedded systems.
- Participated in research projects involving IoT applications and wireless communication systems.

Website www.futa.edu.ng | **Thesis** Design of 500kva, 11/0.415 kVA Power Substation

PROJECTS

11/2023 – 06/2024
AI-Driven Model for Process Optimization in Manufacturing

- Developed an AI-based model that integrated process parameters and inspection data to improve product quality in PET film manufacturing.
- Achieved 98% accuracy in predicting product quality using Python and machine learning libraries, such as scikit-learn.

03/2016 – 06/2023
Rural Electrification Design for Oda Community Akure, Nigeria

- Performed site analysis, prepared AutoCAD designs, and ensured compliance with safety standards and regulatory guidelines.
- Collaborated with the team to design distribution networks, ensuring efficient power delivery to remote communities.

07/2016 – 07/2016
Design Of 500kva, 11/0.415kv Substation using AutoCAD

- Planned and designed a power substation for rural electrification, stepping down voltage from 11kV to 415V.
- Ensured compliance with safety standards and optimized system performance.

CERTIFICATION

Relevant Certifications

- Google IT Automation with Python | Coursera
- AWS Certified Solutions Architect | Amazon Web Services
- Google Project Management | Coursera
- Linux Foundation Certified System Administrator | Linux Foundation
- Kubernetes Administrator | Linux Foundation
- Links to Certificates

DIGITAL SKILLS

Hard Skills (Technical Skills)

Power Systems: Load Flow Analysis, Short-Circuit Studies, Stability Assessments | Electrical Systems | AI & Machine Learning: Python, NumPy, Pandas, Scikit-learn, TensorFlow | Simulation Tools: LTSpice, MATLAB/Simulink, GNS3, Packet Tracer | Office Suite: Microsoft Word, Excel, PowerPoint | Data Analysis: Excel, SQL, Tableau, Power BI

Soft Skills

Communication and interpersonal | Teamwork skills | Problem Solving (problem analisys) | Analytical Thinking | Adaptability & Resilience

HONOURS AND AWARDS

01/2013 – 08/2016
Agbami Sholarship for Engineering and Medical Professions

Agbami Sholarship for Engineering and Medical Professions issued by Agbami Oilfield in Lagos State Nigeria

10/2014 – 10/2014
Best Student in Year 2

Professor Olufolaji D.B Scholarship Prize

HOBBIES AND INTERESTS

Sustainability, Designing, Reading, Playing Piano, Swimming, Travelling

LANGUAGE SKILLS

Mother tongue(s): **YORUBA LANGUAGE**

Other language(s): **DUTCH (A2 – INTERMEDIATE) | ENGLISH (PROFICIENT)**