

SAVIOUR DAGADU

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Professional Summary

As a passionate Electrical Engineer with over 4 years of hands-on experience in embedded systems, IoT, Electrical works and hardware development, I bring expertise in designing and implementing automation and robotics solutions using platforms like Raspberry Pi, ESP32, and STM32. My background includes process automation, sensor integration, microcontroller programming, and interpreting complex engineering schematics. With a strong foundation in both technical execution and team collaboration, I am committed to driving innovative engineering solutions that improve efficiency, safety, and performance across diverse technological environments.

Expertise

- Embedded Systems Development
- Robotics & Automation
- IoT Development
- Programming (C/C++, Python, Embedded C)
- Hardware & Microcontrollers
- Electrical Systems Design & Implementation
- Technical Documentation & Reporting
- Fluent in English

Professional Experience

The Makersplace - Abelemkpe, Greater Accra 12/2022 - Present

Embedded System developer & Robotics Instructor (contract)

- Lead STEM projects in robotics and physical computing; trained 250+ ICT teachers on coding and digital skills as part of the National Digital Literacy Project (NDLP).
- Designed and developed robotics kits and curriculum, and managed hands-on labs for STEAM learning experience.

Accra Technical University, Barnes Rd, Greater Accra 09/2023–2024

Teaching Assistant

- Lectured on Robotics & Automation and PCB Design, assisting with Lab projects for engineering students.

MATJOS Electricals Greater Accra, Ghana 09/2021–12/2022

Electrical Technician - Intern

- Performed troubleshooting and repair of equipment in accordance with manufacturer specifications.
- Installed and maintained electrical systems, supporting commercial and residential projects.

Education

Accra Technical University - Barnes Rd, Greater Accra 19/2022

Higher National Diploma (HND): Electrical Engineering

Relevant Coursework: Control Systems, Network Analysis, Power Electronics, Power Systems, Digital/Analog Electronics, Equipment Maintenance, Calculus

Thesis: Simulation of an Automated Fault Alert System for Low Voltage Networks

Case Study: Electricity Company of Ghana (ECG)

This project proposes a novel design for a location-based fault notification system tailored to ECG's low-voltage overhead network. The system integrates various sensing components (for short circuits, voltage/frequency fluctuations) via a microcontroller and uses GSM modules to send SMS alerts when faults occur. The automated approach facilitates real-time diagnostics, rapid fault identification, and efficient power restoration. Ultimately, it aims to enhance ECG's reliability, reduce downtime, and strengthen operational reputation.

Project: Farm King – A smart intelligent system for Agribusiness [Live Demo](#)

Prosense AG-X is a next-generation AI-powered smart farming system designed to automate and optimize crop growth in greenhouse and hydroponic environments. It integrates real-time monitoring of pH, EC, temperature, humidity, light, CO₂ levels, and soil metrics with intelligent automation for pumps, lighting, and climate control. The system uses a Raspberry Pi IoT stack for data processing, visualization, and remote access via MQTT. Equipped with AES-256 encryption, TLS 1.3, and certificate-based authentication, it ensures enterprise-grade security. Built-in fault tolerance and smart calibration workflows further enhance its reliability. An AI module provides early crop disease detection and actionable insights, making **Prosense AG-X** a robust tool for sustainable, data-driven agriculture.

Certifications & Training

- Advance Embedded System IOT & ML on ARM, ARM Education – 2023.
- Arduino Certification in Electronic and Physical Computing, Arduino Education – 2022.
- Fire Safety education and Awareness Training, Ghana National Fire Service – 2019.
- National Service, Ghana National Service Scheme – 2022/2023.

Languages

- English – Fluent

References

Available upon request.