ISRAEL OLUWASEGUN KOLAWOLE

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EDUCATION

Landmark University, Omu-Aran, Kwara, Nigeria   2020-2025(expected)
Bachelor of Engineering (B.Ng) in Mechatronics Engineering
Cumulative GPA: Second Class (Hons) Upper

Experience

Academic Director   November 2024 – July 2025
Mechatronics Engineering, Mechanical & Mechatronics Student Association,
Landmark University
- Spearheaded academic programming and curriculum-support events (workshops, classes) to strengthen practical skills for cohort members.
- Architected and implemented inventory and order-processing modules for an online store management system to streamline workflows and reduce manual reconciliation.
- Mentored and supervised student project teams, providing technical guidance, review cycles, and milestone checkpoints.

Electronic and Signals Intern   March 2024 – September 2024
Intelbox Solutions Limited. Abuja, Nigeria.
- Spearheaded prototyping of remote-controlled robotics platforms, improving prototype reliability and shortening iteration cycles through structured test plans and automated bench tests.
- Architected and implemented inventory and order-processing modules for an online store management system to streamline workflows and reduce manual reconciliation.
- Developed frontend and backend features for a trivia web application (question management, scoring logic, responsive UI), accelerating feature delivery and improving user experience.
- Prepared and cleaned large datasets to support ML prototyping, enabling faster model training and more reliable evaluation.
- Authored project documentation and daily progress reports, and standardized templates to improve team handovers and onboarding.

Projects

Landmark University, Team of 6, final year thesis   November 2024 – June 2025
Project 1. **Development of an Automatic 4kg payload Drone Delivery System**
- Architected a Django-based Delivery system integrating Pixhawk flight controller and telemetry for real-time mission control.
- Built separate User and Drone apps: booking UI with named GPS/hostel selection and an operator control/telemetry dashboard.
- Integrated USB telemetry with RPM/ARPM mission planners for local mission uploads and live telemetry (no cloud dependency).
- Added mission safety controls: mid-mission cancel/abort and GPS-authenticated payload lock/unlock.

Intelbox Solutions Limited.   March 2024 – September 2025

Project 1. **E-commerce Web Application**
- Led a team to build a full-stack shopping platform with user auth, checkout, and order management.
- Leadership: Assigned tasks based on strengths, managed sprint reviews, and led testing and deployment.

Project 2. **Smart Gas Detection System**
- Co-developed for a senior thesis project using Arduino and Blynk Cloud.
- Integrated gas sensors with real-time mobile alert functionality.
- Role: Wiring, coding, and IoT integration.

Project 3. **Patient Management System**
- Developed a healthcare dashboard for medical records, scheduling, and secure data handling.
- Outcome: Improved patient record efficiency and storage security.

Personal (Selected)   November 2022 – January 2024

Project 1. **Smart Obstacle-Avoidance Car Robot System**
- Designed for indoor navigation using ultrasonic and IR sensors, line tracking, and route correction.
- Featured at "ABCs of Automation" by LUMESA.
- Outcome: Demonstrated accurate real-time obstacle avoidance and intelligent decision-making.
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Project 2. **Smart lock using RFID and Bluetooth Module**
- Designed for door security using RFID(radio frequency Identification) card and module, servo motor(as lock), HC-05 Bluetooth module.
- Outcome: Achieved real time lock and opening using Radio frequency and Bluetooth.

Technical & Soft Skills

Soft Skills: Agility, Problem-Solving, Resilience, Eye for Details, Technical Communication, and Adaptability.
Programming and Software: Python, Django, C++, JavaScript (Next.js/React). SQL, MATLAB (basic), Pandas, Jupyter, Proteus.
Embedded and Robotics: Arduino, Raspberry Pi, ESP boards, Pixhawk (PX4), PCB design(basic)
Telemetry and Comms: USB telemetry, RF transmitters, Bluetooth module.
AI and ML: Supervised and Unsupervised learning, Reinforcement learning(basics), Neural Networks(basics).
Tools and Dev: Git, Docker (basic), Mission planner, QGround control, Clion (C++ projects), unit testing, VSCode
Hardware and Electronics: basic PCB prototyping, soldering, debugging, ADCs, motors, ESCs, and motor drivers.

Certifications and Training

- AI Augmented Professional Development Skills in the Digital Age – ALX AICE (8-week programme).
- 10-week Data Analytics Bootcamp – Everything Analytics.
- OpenCV live! Webinar attendance (topics included deepfake detection and CV best practices).
- Machine Learning and Electronics Programme – Intelbox Solutions Ltd.
- Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024] – Udemy.
- More available upon request

Volunteer Experience

Student Instructor
 -Landmark University Crafthub   October 2023 - February 2025
 -Landmark University Mechanical and Mechatronics Student Association (LUMESA)   March 2025, November 2023

Interests

-Technology for Sustainability
-Bio-inspired engineering
-Lifelong learning