ELISHA KUTI
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PROFESSIONAL SUMMARY

Mechatronics Engineer with practical experience in telecommunications infrastructure, network operations, incident management, and technical team coordination. My professional experience has strengthened my interest in the management and leadership of complex engineering systems.

EDUCATION

Federal Government College, Otobi Benue State, Nigeria **20/09/2010 - 18/07/2016**

SSCE NECO

Federal University of Technology, Minna, Nigeria 25/09/2017–15/01/2024

Bachelor of Engineering (B.Eng.) in Mechatronics Engineering

Department of Mechatronics Engineering. Coursework and practical training covered electronics, control systems, embedded programming, and mechanical design through lectures, laboratory sessions, conferences, project training, and workshops.

Industrial Trainee | *CNC Industrial Tools and Equipment Limited, Nigeria* Undergraduate IT Placement 21/09/2020 - 27/08/2021

Gained exposure to real-world engineering procedures, including the design and procurement of industrial tools.

Developed an appreciation for physical infrastructure standards and the standardization of techniques and procedures required for design, manufacturing, assembly, and procurement of equipment.

Final Year Project: Design and Development of an IoT-Based Based Real time weather observation System

- Designed an IoT-based real-time weather observatory system using an ESP32 microcontroller interfaced with a BMP180 sensor for pressure, temperature, and humidity readings.
- Implemented MQTT for real-time data transmission and Firebase for cloud storage and data persistence.
- Developed a Vue.js web dashboard that refreshed live sensor data every 30 seconds for remote monitoring.
- Carried out hardware integration, embedded programming, sensor calibration, system testing, and validation.

Other Semester Design Projects

- FM Transmitter: designed and built a frequency-modulation transmitter circuit, applying analogue electronics and RF signal principles.
- Pulse Modulator: developed a pulse modulation circuit to demonstrate signal encoding and modulation techniques for communication systems.
- RNN Rain Prediction Model: built a Recurrent Neural Network model to forecast rainfall from historical weather data, applying machine learning to environmental prediction.

SKILLS AND COMPETENCES

Technical: Network Monitoring (NetFlow, CMS), Packet/Traffic Analysis (Wireshark), Incident Management, Root Cause Analysis, Preventive Maintenance, Embedded Systems (ESP32, Embedded C/C++), IoT Solutions (MQTT, Firebase), Automotive Network Security (CAN bus, Bluetooth, Firmware Assessment)

Personal Strengths: Clear technical communication, cross-functional collaboration, leadership and team coordination, adaptability, problem-solving under pressure

Software & Tools: Python, Vue.js, Wireshark, SNMP-based monitoring platforms, Firebase, MQTT brokers

INDUSTRIAL EXPERIENCE

Field Support Engineer | *Gaio Systems, Nigeria* 22/04/ 2025 – 30/06/ 2026

- Monitored telecommunications infrastructure and operational technology, tracking network health and performance in real time.
- Coordinated field engineers on-site, directing diagnostic and corrective actions to minimize network downtime.
- Analyzed operational data to identify performance trends, recurring faults, and areas for preventive intervention.
- Managed incidents from detection through resolution using CMS and Wireshark for monitoring and traffic analysis.
- Supported preventive maintenance programs, applying system identification and electronics knowledge to confirm measurements and validate fixes.
- Instructed and guided technicians on proper diagnostic and troubleshooting procedures, translating technical concepts for both technical and non-technical stakeholders to ensure correct execution.

NYSC intern | *Nitro Automotive* 17/04/2024 –16/04/2025

- Conducted CAN bus security assessments to identify vulnerabilities in in-vehicle network communication.
- Evaluated Bluetooth protocol implementations for potential security weaknesses in connected-vehicle systems