

Salome Mukuhi Kiiria

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Mechatronics Engineer | EV Systems & Smart Mobility Innovator

Education

Dedan Kimathi University of Technology

Bachelor of Science in Mechatronics Engineering
(September 2020 - May 2025)

Professional Experience

Enzi Motors- Graduate Engineer

August 2025 - Present

- Data analysis and visualisation
- Battery range optimization
- Artificial intelligence integration and smart systems

Enzi Motors - Engineering Intern

May 2025 - July

- Supporting EV motorbike assembly and testing projects.
- Assisting with battery assembly, range optimization, and telemetry system integration.
- Collaborating with teams on product development and deployment of e-mobility solutions.

Chaji Energy Solutions - Research & Technical Associate (Intern)

March 2025 - April 2025

- Contributed to grant applications for e-mobility and renewable energy projects.

- Researched energy systems, EV charging, and business models for urban charging networks.
- Provided technical inputs on load balancing, solar integration, and control systems.

Kenya Ports Authority (KPA) – Inland Container Depot - *Industrial Attachment*
January 2025 – March 2025

- Worked across workshops handling mechanical and electrical systems maintenance.
- Prepared detailed technical reports with diagrams/sketches.
- Gained hands-on exposure to container handling equipment and fleet systems.

Kenya Power and Lighting Company (KPLC) - *Industrial Attachment*
May 2023 - August 2023

- Participated in vehicle fleet repairs and preventive maintenance.
- Documented applications of sensors and actuators in automotive systems.
- Strengthened practical understanding of automotive mechatronics systems.

Projects

ICE to electric Motorbike Conversion (Final Year Project)
November 2024 - January 2025

- Converted an ICE motorcycle to an electric motorbike.
- Designed system integration for battery, motor controller, and drivetrain.
- Focused on range optimization, battery telemetry, and route prediction.
- Partnered with **Enzi Motors** for implementation.

Smart, Low-Cost EV Charging Network for Urban Areas

- Designed an affordable EV charging network with solar integration and dynamic load balancing.

- Addressed smart-grid integration challenges for energy-constrained peri-urban areas.

Ecofleet EV Range Optimization Platform

- Developed real-time EV fleet management platform with telemetry, route optimization, and battery range prediction.
- Integrated **LangChain AI agent** for natural language trip planning and charging recommendations.
- Built telemetry dashboard in **Streamlit + FastAPI** with anomaly detection for SoC, voltage, and current.
- Won **KAPS Inter-University Hackathon** (2024).

Training & Certifications

- **Siemens Level 1 Certification** - *Siemens Certified Mechatronic Systems Assistant (SCMSA)*
- **Battery Assembly Training** - Enzi Motors (Dec 2024)
- Workshop: **Developing a Competent Workforce for E-Mobility Advancement** - AfricaNEV, University of Nairobi (2024)

Skills

- **EV Systems:** Range prediction, battery telemetry, BMS, route optimization
- **Software & Tools:** Python, Streamlit, FastAPI, LangChain, XGBoost, Folium
- **Hardware & Engineering:** Mechatronics design, sensors/actuators, automotive repair, power electronics
- **Proposal Development:** Grant applications, technical documentation, research for energy projects

Awards

- **Winner, KAPS Inter-University Hackathon (2024)** -Project: *Data-Driven Optimization for EV Fleet Management*

References

- **Mr. Martin Kamande** - Head, Automotive Mechatronic Department,
Dedan Kimathi University
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- **Eng. Steve Odhiambo** - Senior Engineer
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