

MAXWELL WACHIRA NGATIA

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Career Objective

Aspiring Mechatronics Engineer and Web Developer passionate about creating intelligent, connected systems that merge hardware and software. Currently exploring web technologies to expand my IoT and embedded systems skillset, with a goal of building scalable solutions for energy, automation, and digital innovation in Africa.

Education

- Dedan Kimathi University of Technology
- Bachelor of Science in Mechatronics Engineering — Year: 2.2
- Notable Achievement: WAZI IoT Certification Programme

Technical & Soft Skills

Technical: FreeCAD, IoT, Embedded Systems, Firebase, ESP32, Web Development (React, Vercel, Firebase), GitHub, VS Code, ChatGPT-assisted coding

Soft: Teamwork, Problem Solving, Time Management, Adaptability, Continuous Learning

Experience

- IoT Project Lead — MAWI Solutions (June 2025 – Present)
- Designed a smart home energy management system using ESP32 and Firebase.
- Integrated M-Pesa token payments and real-time remote control of household appliances.
- Collaborated on cloud database architecture and mobile/web UI development.
- Presented prototype showcasing seamless interaction between IoT hardware and cloud backend.

Projects

- MAWI Solutions – Smart Power Management System

 <https://mawi-client.vercel.app>

Tools: ChatGPT, VS Code, GitHub Copilot, Firebase

Developed an IoT-based web app for monitoring and controlling power usage. Implemented live charts for voltage and current readings from ESP32 sensors. Contributed to system architecture, UI, and cloud integration.

- Personal Financial Manager App

Tools: Lovable (no-code platform)

Created a lightweight personal finance tracker to manage daily expenses. Focused on intuitive UI and automated data visualization.

- Personal Portfolio Website (In Progress)

Building a personal website to showcase engineering and IoT projects. Aims to include admin and guest modes, project uploads, and interactive galleries.

Certifications & Achievements

- WAZI IoT Certification Programme (2025)

Interests

IoT Development, Embedded Systems, Smart Energy Solutions, Full-Stack Development, Automotive Electronics

References

Available upon request.