

DENNIS RUDIGA IMBWAGA

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EDUCATION

Masinde Muliro University of Science & Technology

Sept 2018 – Dec 2024

B.Sc. Electrical and Communication Engineering

Power Systems, Circuit Design and Analysis, Mobile and Wireless Communication Systems, Industrial electronics, Engineering product design, Software Engineering, Data Communications and Computer Networks, Control Systems and Digital Electronics.

IBM SkillsBuild

June 2024 – Aug 2024

Cyber Security Fundamentals – Associate Certificate

Web Development Fundamentals – Associate Certificate

Oracle University

July 2025 – present

OCI Generative AI – Professional Certificate

OCI Data Science – Professional Certificate

Machine Learning Fundamentals, Deep Learning Fundamentals, Generative AI, Data Science, Python.

EXPERIENCE

Alan Dick & Co East Africa LTD

On-site

Telecommunications Engineer (Internship)

Jan 2025 – present

- Installation, configuration and maintenance of Base Transceiver Stations, ensuring reliable network performance.
- Troubleshooting signal issues and optimizing wireless coverage to support seamless communication.
- Engaging with HMIs and SCADA systems to monitor and control infrastructure in real time.
- I installed and configured routers to enable wireless communication and data transfer.
- Fiber splicing and OTDR testing

SwiftPesa.click

Remote

Flutter Developer (Contract)

Aug 2024 – Dec 2025

- Designed and implemented the KYC screens for the SwiftPesa app using stepper and page view for navigation flow
- Designed the welcome, Sign Up and Sign In Screens with Figma
- REST API Integration
- Implemented OTP Login via Firebase Auth
- Collaborated with team members in refactoring code, adding new features such as Binance API for live Crypto prices.
- Worked with MVVM architecture and Cubit state management to create responsive and user-friendly mobile app for both IOS and Android platforms.
- Collaborated with team members to complete tasks and deliver features, including data management, persistent storage and custom UI components

Upwork

Remote

Frontend Developer (freelance)

Dec 2020 – present

- Built and developed fully responsive websites for clients using HTML, CSS & JavaScript
- Building modular, scalable user interfaces with React reusable components.
- Implementing state management with Zustand and Redux
- Developing full-featured SPAs, Server-side rendering, Static site generation with Next.js
- Writing clean, Maintainable code with TypeScript
- Developing beautiful UI and components with Bootstrap and Tailwind CSS
- Enhancing web app performance with lazy loading, bundle optimizing, React Hooks and SEO optimization
- Working with Figma and Adobe Creative Cloud to design creative landing pages.
- Integrating back-end APIs (REST and SOAP) using Node.js and Laravel

Back-end Developer (freelance)

- Developing APIs using Laravel for server-side logic
- Database design and management by creating schemas, relationships, migrations to manage data efficiently
- Implementing secure login systems using Laravel sanctum, Supabase Auth, Firebase Auth and token-based authentication with JWT
- Creating lightweight, event-driven APIs using Node.js and Express

KenGen Olkaria

On-site

Electrical engineering intern

May 2023 – Sept 2023

- Maintaining and operating large-scale power generation equipment
- Corrective maintenance and diagnostics of turbine generators, motors, switchgears, protection relays and transformers.
- Testing of battery chargers and UPS systems.
- Participated in synchronized shutdown and startup procedures.
- Reinforced my technical and safety compliance skills in high voltage environment.

Electrical engineering intern

May 2022 – Aug 2022

- Supported the maintenance and operation of industrial electrical systems
- Performed scheduled servicing and repairs on injection molding machines, contributing to improved plant reliability and reduced downtime.
- Conducted diagnostics on power systems, maintained capacitor banks and carried out load flow analysis to ensure efficient energy use.
- Worked with SCADA and HMI systems to enable real-time monitoring and fault detection.
- Assisted in PLC diagnostics for system automation.
- Data collection and analysis for proactive maintenance and repair planning.

SKILLS

Electrical engineering

- Engineering product design
- Circuit design and analysis
- Instrumentation
- Industrial Electronics
- Control systems
- MATLAB
- C/C++ & JAVA
- Technical writing
- Project and Research writing
- Telecommunications

Full stack software development

Frontend Stack

- Next.js
- HTML, CSS & JS
- React
- Tailwind CSS and Bootstrap
- Angular and Flutter

Backend Stack

- Laravel
- Node.js
- Express
- Supabase
- REST APIs

SUMMARY

Electrical and Telecommunications Engineer with hands-on experience in deploying and maintaining wireless communication systems and network infrastructure in diverse field conditions. Skilled in circuit design, instrumentation and embedded systems, with a strong grasp of both analog and digital communication principles. Blending hardware expertise with software capability, I also develop full-stack applications enabling me to bridge the gap between physical infrastructure and software engineering. Driven by curiosity, precision, and a passion for connectivity, I aim to contribute to projects that demand both technical depth and systems thinking, particularly in telecommunications, smart infrastructure and software development.