

ALLEN SIBANDA

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Gender: Male

Electronic Engineering graduate passionate about leveraging AI and advanced networking technologies to drive efficient network planning, optimization, and innovative solutions in global telecommunications and ICT infrastructure

EDUCATION

National University of Science and Technology

Bachelor of Engineering Honours degree in Electronic Engineering
(2019 - 2024)

Class: **First Division**

Relevant Courses: *High-Speed Networks, Mobile Communications Systems, Communication Systems Performance, Digital Signal Processing, Embedded Systems, Communications Engineering II, Communication Engineering I*

CERTIFICATIONS

Skillsforall / Netacad platform (Cisco)

- Network Addressing and Basic Troubleshooting (August 2023)
- Networking Devices, and Initial Configuration (July 2023)
- Networking Basics (March 2023)

Coursera Online

- Introduction to Network Automation (April 2024)
- Supervised Machine Learning: Regression and Classification (December 2023)

Sciency MakerLabs and HUBiquitous H2020

- IoT and LoRa WAN certification program (June 2024)

WORK EXPERIENCE

Junior Electrical Engineer Intern

Bulawayo City Council (Aug 2022 - July 2023)

- Prepared technical drawings and specifications for electrical systems using AutoCAD, ensuring compliance with standards and regulatory requirements.
- Supervised the installation, operation, and maintenance of electrical equipment, including 7.7kVA solar systems and traffic controllers, for Bulawayo City Council.
- Developed software for Kenwood NX700 emergency radios and collaborated with engineers and clients on engineering projects.

IT support

Click'n'Pay Africa (Dec 2022 - May 2024)

- Carried out networking of ticketing systems.
- Ticket sales and customer support

SKILLS

- Project Management
- Strong proficiency in English
- Excellent communication, analytical, and problem-solving skills
- Networking Knowledge (TCP/IP stack, CISCO devices)
- AI Model Development (regression and classification)
- Linux (Bash scripting and server management)
- Signal analysis and modelling with MATLAB
- Network simulation with packet tracer and GNS3
- API Development (Python, Netmiko and NAPALM)
- IT Support and Troubleshooting
- Microsoft Office Suite
- Database Management (PostgreSQL)
- Embedded Systems Programming (MikroC)

PROJECTS

Real-time Monitoring and Protection System for Water Pipelines (Honors Project)

- Real-time monitoring of water pipelines using IoT sensor nodes and GSM/GPRS transceivers.
- Algorithms detect leaks, anomalies in pressure/flow, and offer predictive analytics.
- Uplink via GPRS; alerts sent through SMS using Twilio API.

Transmission Guard

Texpo PowerUp Hackathon (July 2024)

- Team project for ZETDC hackathon
- Tempering detection and alert system prototype that safeguards cables and transformers from theft and unauthorized access

VOLUNTEERING

World Robotic Olympiad 2024

Mentored high school teams in developing innovative solutions from concept to execution and providing hands-on training in hardware programming and IoT Technologies.