

ALLEN SIBANDA

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EDUCATION

National University of Science and Technology

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

Class: **First Division**

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)

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)

- providing data communication services (networking, cable testing, crimping etc.)
- ticket issuance and scanning at events, customer service

Freelance Software Engineer

February 2024 - Present

- Design, develop, and optimize software solutions to meet client and business needs, ensuring high performance and scalability.
- Collaborate cross-functionally with developers, designers, and stakeholders to deliver efficient and innovative technology solutions.

SKILLS

- Project Management
- Strong proficiency in English
- Excellent communication, analytical, and problem-solving skills
- Experience with network security principles, firewalls, and protocols (TCP/IP, SSH, HTTPS)
- 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)
- DevOps practices, CI/CD pipelines (GitHub actions) and containerization using Docker

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.

Pingit (www.pingit.co.zw)

- Web based bulk sms platform
- Platform enables businesses to efficiently send and manage large-scale SMS campaigns with real-time tracking and analytics.

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.

References available on request