FRANCOIS MAVUNILA

ELECTRONIC ENGINEERING GRADUATE

70905 lobengula west bulawayo │ +263783857780 │ mavunila002@gmail.com

PROFILE SUMMARY

Bachelor in electronics engineering graduate, aspiring software developer with passion for developing better engineering tools, futuristic technology and the zeal to mentor young people in developing their technical skills. Hardworking , with a grade A average in electronics engineering bachelors degree.

EDUCATION

National university of science and technology   2017 – 2022

Bachelor of Engineering Honors Degree in Electronic Engineering

Part 1 overall : 81%   Part 2 overall : 78%   Part 3 overall : 78%   Part 4 overall : 79%   Part 5 overall : 82%

Degree class   :   First Division(1)

RESEARCH EXPERIENCE

- National university of science and technology, Taxi safety and robbery prevention system,
  Use of biometrics (fingerprints) in public transport security system   Nov2021–Jun2022
  Advisor   :   Mr. B Dlodlo, Electronics department chairman

HONORS AND AWARDS

- Book Prize at the National University of Science and technology   2022
- Book Prize at the National University of Science and technology   2018
- Highlife foundation Scholar   2011 – 2022

PRESENTATIONS

- Upcoming presentation on Intelligent transport systems using biometrics for security
  Program   :   NUSTESAC

TECHNICAL SKILL

Web development : Nodejs (Advanced), React.js, PHP, Javascript, HTML, CSS

Database management systems : MySQL, MongoDB (Advanced)

Mobile app development : react native

Object oriented programming : c++ (intermediate), python (intermediate)

Micro controller programming : esp32 using arduino c and micro python, arduino boards(uno, nano, mega)
                              Raspberry pi programming using python

Circuit design : circuit design simulation using proteus and circuit maker, pcb design using circuit maker

Embedded systems design : mikroC (pic 16f877)

Control system design : PLC programming using ladder logic

PROFESSIONAL EXPERIENCE

Software developer/ Electronics Engineer   April, 2021 – present
InnoTech Africa

- Developed an assets management system using Nodejs, React, Express and MongoDB
- sparks learning for Africa – took part in the electronics boot camp for high school students
- Smart security project – a security system that allows security guards to patrol a building using their fingerprints to register that they have patrolled.
- Currently developing a SAAS for the smart security system
- Smart Alarm system – currently developing a SAAS for monitoring the alarm system using the MERN stack

Web development   part time
Infinity Quo (part time)

- Working as a full stack developer in developing an online school that offers mental health, financial, spiritual growth, and physical health courses

Integrator   September, 2021 – september,2022
Roc Apply (part time)

- creating and managing the RocApply universities catalogue

LEADERSHIP AND SERVICE ACTIVITIES

Mentor, **software development online group**:   13 May 2021 – present
- provides knowledge on software development to young students
- provides guidance on writing good software programs

Boot camp, **sparks learning for Africa**:   May 2021 – August 2021
- Took part in preparing learning material for high–school students' virtual boot camp on electronics

Nust Enactus   February 2022 – present
- A member of a group of Entrepreneurs who seek to gain entrepreneurial skills through helping the community.
- Community engagement include Nust clean up campaigns, creating household items from recycled plastic and sand.

GreenHut Trust   August 2022
- Promoting environmental consciousness and sustainable development in communities across Zimbabwe

Bible Study leader, **NUST CHRISTIAN UNION**   August 2019 – August 2020
- coordinated bible study services

REFERENCES

Eng. B.Dlodlo Chairperson of the electronics department at the National University of Science and Technology, Bulawayo, Zimbabwe
buthanani.dlodlo@nust.ac.zw , +263 77 673 1499

Dr B Mthunzi Director of ICT at National University of Science and Technology, Zimbabwe
busiso.mtunzi@nust.ac.zw, bmtunzi@gmail.com, +263716583271

Eng. M Ndebele Director at InnoTech Africa, Bulawayo, Zimbabwe
mpi.ndebele@innotech.com , +263 71 721 7398