

# Farai Mashonganyika

Final Year Electronics & Computer Engineering Student

## About me

Final year Electronics & Computer Engineering student at UNAM with hands-on experience in full-stack development, IoT systems, and deep learning. Passionate about building solutions that bridge hardware and software.

## Personal

Farai Mashonganyika  
Nationality: Zimbabwean  
Ongwediva, Namibia

## Areas of Specialization

Engineering • Full-Stack Dev  
• IoT • AI/ML

## Interests

AI developments • Music  
Production • Sound  
Engineering • Graphics Design

## Tech Stack

React / Next.js  
Firebase / Supabase  
Arduino / ESP32  
Python / MATLAB

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rb-mash

in farai-mashonganyika

## SHORT RESUMÉ

2024–Present

### IT Tech Assistant

TECHNICAL SUPPORT • UNAM JEDS Campus

Provide large-scale campus-wide IT support for over 900 students and staff. Set up and maintain multiple computer labs including hardware prep and software configuration. Manage campus internet infrastructure and ensure reliable connectivity across all departments. Troubleshoot technical issues and support digital upgrades and long-term IT planning.



2023–Present

### Freelance Developer

DEVELOPER • Mashdev Investments CC

Provide digital solutions including app development, web services, and content creation.



## DEGREES

2021–2025

### BSc Electronics & Computer Engineering (Hons)

• University of Namibia



## PROGRAMMING

React / Next.js

Python

C++ / Arduino

MATLAB

JavaScript

## PROJECTS

2024

### MashDev Client Portal

FULL-STACK PLATFORM

Developing a scalable client and admin portal using Next.js, MongoDB Atlas, and modern UI frameworks. Features include role-based access, request tracking, invoice management, and multi-tenant company/site structure.



2025

### Deep Learning-Based Occlusion Mitigation for Human Detection in SAR Operations

RESEARCH PROJECT • University of Namibia

Developed a deep learning model to improve human detection under occlusion for Search-and-Rescue scenarios. Submitted as Honours research project under supervision of Dr. F. Shafuda.



2025

### IoT-Based Energy Management System

DESIGN PROJECT • University of Namibia

Designed and built a household electricity monitoring and control system using IoT technologies. Team project submitted as Honours design project under Mr. Mathew Abisai.



2025–Present

### Amuela & Associates Legal Practitioners Website

WEB DEVELOPMENT • Mashdev Investments CC

Designed and developed the web presence for Amuela & Associates Legal Practitioners under the tagline *Your Justice, Our Priority.*



## CERTIFICATES & ROLES

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- 2025** 4th Year Electronics Class Representative, UNAM
- 2025** Media Committee Technical & Events Coordinator, DSA UNAM JEDS
- 2024** Green Hydrogen Masterclass
- 2024** 3rd Year Electronics Class Representative, UNAM
- 2024** Media Committee Member, DSA UNAM JEDS
- 2024** Electoral Commissioner, DSA UNAM JEDS

## LANGUAGES

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<b>Shona</b>	C2	mother tongue
<b>English</b>	C2	● ● ● ● ●
<b>Afrikaans</b>	B2	● ● ● ● ●

## REFERENCES

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<b>Name</b>	Prof. O.T. Johnson
<b>Title</b>	Associate Dean, School of Engineering & the Built Environment
<b>Institution</b>	University of Namibia
<b>Phone</b>	+264 81 602 3134
<b>Email</b>	ojohnson@unam.na

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## PORTFOLIO

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**Web** <https://faraimasho.com>  
**LinkedIn** [farai-mashonganyika](#)  
**GitHub** [rb-mash](#)

## CONTACT

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