Curriculum Vitae

1.0 Personal Information

Name: Nyasha Mpinda
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YouTube: https://www.youtube.com/@nyashampinda2435

2.0 Professional Summary

I am an IT graduate from Malawi University of Business and Applied Sciences (MUBAS) who is enthusiastic about leveraging innovative solutions to solve complex problems. Experienced in programming, web development, teaching, and robotics, with a keen interest in technology and innovation.

3.0 Key Skills

- **Programming Languages:** Python, Java, C++, C#

- **Web Development:** HTML, CSS, JavaScript

- **Database Management:** MySQL

- **App development:** Android studio

- **Problem-solving:** Team collaboration and critical thinking

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4.0 Work Experience

Currently interning at FDH Bank
- Contributed to developing different applications and systems for the bank.

Interned at Robotics Foundation Limited Malawi

- Assisted in building robots and mentoring children.

- Collaborated with a team to build and deploy robots for the First Global Robotics Challenge in the USA (2017) and UAE, Dubai (2019).

- Focused on programming robots using Java, with active participation in hardware development.

- Taught robotics at Central High International School.

Interned at MicroMek

- Contributed to the development and deployment of drones for transporting medicine to rural, hard-to-reach areas (under the UNICEF program).

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5.0 Educational Background

Bachelor of Science in Information Technology
Malawi University of Business and Applied Sciences (MUBAS)
Graduated: April 2025

Advanced Diploma in Electrical and Electronics Engineering Level 5
City & Guilds programme (The polytechnic)
Completion Year: January 2020

Diploma in Electrical and Electronics Engineering Level 4
City & Guilds programme (The polytechnic)

Completion Year: June 2019

Certificate in Electrical and Electronics Engineering Level 3
City & Guilds programme (The polytechnic)
Completion Year: December 2018

High School Diploma
Good Shepherd International School
Graduated: June 2018

6.0 Certifications

- **Bachelor's Degree of Science in Information Technology with Credit**
  Institution: The Polytechnic, Malawi (2025)

- **City & Guilds Advanced Diploma in Electrical and Electronics Engineering Level 5**
  Institution: The Polytechnic, Malawi (2020)

- **City & Guilds Diploma in Electrical and Electronics Engineering Level 4**
  Institution: The Polytechnic, Malawi (2019)

- **City & Guilds Certificate in Electrical and Electronics Engineering Level 3**
  Institution: The Polytechnic, Malawi (2018)

7.0 Projects

Banking Systems

- Automated ATM transaction processing.

Baby Monitoring and Alerting System

- Real-time monitoring of baby vital signs (heart rate, oxygen, temperature).

- Real-time alerts for nurses.

- Integrated visual monitoring using cameras.

Early Flood Warning System

- Real-time water level monitoring.

- Geographic location tracking of flood-prone areas using Google Maps API.

- Real-time alert and warning system for floods.

Video Game Development

- Developed game mechanics using C++ in Unreal Engine.

- Modeled 3D characters and environments.

3D Car Commercial Simulation

- Created a 3D simulation mimicking real-world environments (streets, lights, people) using Blender.

8.0 Achievements

- Secured **3rd place** in the First Annual Innovations Competition at MUBAS.

- Represented Malawi in the First Global Robotics Challenge in the USA (2017) and Dubai, UAE (2020).

- Won **1st place** in the Annual Arduino Day Competition (2019) at the Polytechnic Design Studio.

- Participated in the Malawi Innovation Design Competition (MIDC) at MUST in 2022.

- I mentored a team that went to represent Malawi and compete in the 2023 First Global Competition for robotics in Switzerland and came in the top 20.

9.0 References

Stanely A. Mbewe, MSc, BSc (PhD pending)

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Hillary Lodzanyama, BSc, MSc (Pending)

Design Studio Supervisor

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