

KONDWANI JASI

Chimwankhunda, Blantyre, Malawi

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Date of Birth: 20 July 1999 | Nationality: Malawian | Languages: English, Chichewa

Professional Summary

Results-driven Industrial Engineer with strong hands-on experience in designing, fabricating, and testing machinery. Skilled in CNC and manual machining, CAD design, circuit integration, and embedded programming. Proven ability to translate ideas into practical, locally-relevant engineering solutions through real-world project execution.

Technical Skills

- Design & Simulation: Fusion 360, SolidWorks, AutoCAD, FreeCAD, Inkscape, Maya, Autodesk CFD, Ansys, Proteus
- Manufacturing: CNC Machining, Manual Machining, 3D Printing, Laser Cutting
- Programming: C, C++, C#, Python, Java, Arduino
- Automation: G-code, PLC Wiring & Programming, Industrial Sensors, HMI Development
- Version Control: Git, GitHub, Autodesk Version Control, Product Management System

Education

Bachelor of Industrial Engineering, MUBAS — 2018–2023

Malawi School Certificate of Education, Malosa Secondary School — 2012–2016

Certifications

- Data Visualization and Cartography (DVAC), ADDA — Dec 2020
- Remote Piloted Aircraft Technology, ADDA — Oct 2020

Professional Experience

Assistant Engineer, Innovation - MUBAS Agricultural Machinery Production Project ,
MUBAS - 2025 (August)- Present

Industrial Engineering Technician (Intern) – Agricultural Mechanisation Project,
MUBAS — 2023 (December) - 2025 (July)

- Designed and fabricated tools including handheld tractors, planters, threshers, and harvesters
- Led prototyping, CAD modeling, and part manufacturing
- Supported fabrication using CNC and manual machines

Mentor & Trainer – MUBAS Design Studio — 2024 & 2025

- Trained students in CAD, prototyping, and digital fabrication
- Guided interdisciplinary innovation teams in engineering projects

RICE360 Intern – MUBAS Design Studio — 2021–2022

- Designed healthcare devices using CAD and simulation tools
- Integrated electronic circuits and programmed microcontrollers
- Operated 3D printers, laser cutters, and CNC tools

Design Engineer – COVID-19 Taskforce, MUBAS — 2020

- Developed functional prototypes for ventilators and disinfection chambers

Engineering & Design Projects

- GM-Plastics (2023–2024): PLC wiring, programming, and repair
- EGENCO: Digital modeling of power stations
- Geoserve Engineering (2022): CAD and animation for Castel Malawi beer tanks
- Knitwear Industries (2022): Technical CAD illustrations
- Pharmanova (2020–2022): Equipment design and repair

Trainings

- G-code Programming, CAD, CNC Milling & Laser Cutting — MUBAS Design Studio
- 3D Printing and Electronic Circuit Printing — MUBAS Design Studio

Soft Skills

- Detail-oriented and proactive
- Strong visual and spatial reasoning
- Team coordination and mentorship experience
- Critical thinking and time management

Interests

CNC Fabrication, 3D Printing, DIY Electronics, Robotics, Programming, Technical Drawing, Engineering Education

Referees

Dr. Tomothy Ascus Chadza – MUBAS

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Mr. Hillary Lodzanyama – MUBAS Design Studio

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Mr. G. Mhango - Electricity Generation Company Limited, Malawi (EGENCO)

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Prof B.O Mkandawire | Dean of Engineering - MUBAS

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