

Keneth Paul Mwaniki

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Objective

I am a graduate Mechanical Engineer with strong foundations in 3D modelling and HVAC systems with keen interest in MEP services. I have a passion for solving real-world problems through mechanical design, efficient communication and collaborations.

Experience

- Jambo Auto Engineering Limited** Jan 2024 - March 2024
Engineering Attaché
 - Repaired brake disks through tanning
 - Repaired cylinder blocks by sleeve replacement and vertical boring
 - Repaired crank shafts through grinding
 - Repaired cylinder heads through facing operations
 - Replaced shaft bearings
- Refnet Air Conditioning East Africa Limited** Jan 2023 - March 2023
Engineering Attaché
 - Surveyed sites for AC installation
 - Performed load calculations for AC system selections
 - Fabricated louvres and diffusers for a distributed duct system
 - Assisted in system selection for comfort AC applications
 - Installed AC systems alongside company technicians
 - Conducted regular preventive maintenance for clients with servicing contracts with the company
 - Conducted Corrective Maintenance for AC systems
- Jomo Kenyatta University of Agriculture and Technology** Jan 2022 - Feb 2022
Engineering Attaché
 - Made a plumb bob through machine shop operations: facing, tanning, taper tanning, boring and threading
 - Made a wooden pattern for a steering wheel in carpentry workshop
 - Cast an aluminium steering wheel from aforementioned pattern by green sand casting in foundry workshop
 - Made one way and two way light switching electric circuits in electrical workshop
 - Made a latch plate lock assembly by flat metal cutting and welding
- Queen's Cyber Cafe** Feb 2019 - June 2019
Computer Packages Tutor
Taught the microsoft office suite:
 - Ms Word
 - Ms Excel
 - Ms Access
 - Ms Publisher
 - Ms Powerpoint

Education

- Jomo Kenyatta University of Agriculture and Technology** 2025
Bsc. Mechanical Engineering
Second Class Honours Upper Division
- Nairobi School** 2018
Kenya Certificate of Secondary Education
A-

Skills

- 3D modelling SOLIDWORKS
- 3D modelling Autodesk Inventor
- 2D drawing AutoCAD
- Lathe Machine Operations
- HVAC load calculations
- Microsoft Office
- English (C2)
- Spanish A2
- Public Speaking
- Leadership

Projects

- **Design and Fabrication of a Hybrid Eddy Current-Friction Braking System**
Outcome: Managed to design and fabricate a test rig for a system that uses eddy currents to decelerate a rotating wheel and friction pads to get it to a halt. Speed sensors and excel graphing allowed us to compare deceleration profiles of the system while under pure friction braking, pure eddy current braking and on hybrid braking.

Personal Details

- Date of Birth : 08/12/1999

Reference

- **Dr. Hiram Ndiritu - Jomo Kenyatta University of Agriculture and Technology**
Principal College of Engineering
HNdiritu@eng.jkuat.ac.ke
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