

Keneth Paul Mwaniki

keneth.paul.mwaniki@gmail.com
0705984120 | keneth.paul.mwaniki@gmail.com

Objective

I am a graduate Mechanical Engineer with strong foundations in 3D modelling and HVAC systems with keen interest in MEP services. I'm additionally a full-stack developer and public speaker. I have a passion for solving real-world problems through mechanical design, intuitive web platforms and community engagement.

Experience

- **Freelance Web Developer** Feb 2025 - Current
 - Built and deployed a dynamic full stack website for the JKUAT Debate Society on Netlify and Render
 - Built fully responsive website to serve as my engineering, speaking and webdev portfolio
- **Jamboleo Auto Engineering Limited** Jan 2024 - Mar 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 - Mar 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

- **Self Taught: YouTube** 2025
Web Development

- **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-
- **Isegeretoto School** 2014
Kenya Certificate of Primary Education
424/500

Skills

- 3D modelling SOLIDWORKS
- 3D modelling Autodesk Inventor
- 2D drawing AutoCAD
- HVAC load calculations
- Microsoft Office
- HTML
- CSS
- JavaScript
- REACT
- NodeJS/ExpressJS
- GitHub
- Public Speaking
- Debating
- English C2
- Spanish A2
- Leadership

Projects

- **Hybrid Eddy Current-Friction Braking System**
Was my final year project.
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.
- **JDS website**
Undertook a personal project to build a website for my school's debate club to help them manage meetings, recruit and train new members.
It tested and improved my skills in both frontend and backend web development.

Link: jdsweb.netlify.app
- **Portfolio Website**
Built a website to showcase my skills in engineering, web development and public speaking. It serves to add credibility as well as be proof of work for my skills.

Link: kenethmwaniki.netlify.app

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
0722421672