KELLY DIANG'A

ROBOTICS AND MECHATRONICS ENGINEER

CONTACT

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LinkedIn

EDUCATION

2020 -Now

SWINBURNE UNIVERSITY OF TECHNOLOGY,MALAYSIA.

- Bachelor of Engineering(Robotics and Mechatronics)(Honors)

2015 -2018

KENYA HIGH SCHOOL,KENYA.

- Kenya Certificate of Secondary Education

SKILLS

ROBOTICS

- Embedded Systems
- ABB Industrial Robots

PROGRAMMING

- MATLAB
- Python3
- C/C++
- Assembly
- HTML
- PHP
- MySQL

SOFTWARE

- Solidworks
- AutoCAD
- Multism

MANUFACTURING

- Wiring (soldering,crimping, .e.t.c)

Power and Hnad Tools

LANGUAGES

- English (Fluent)
- Kiswahili(Fluent)
- Luo(Intermediate)

PROFILE

Forward-thinking and confident engineering undergraduate with well-honed communication and leadership skills. Seeking an internship at your organization and put my knowledge and experience into use in the modern world.

WORK EXPERIENCE

Swinburne University Of Technology 2024-06 - 2024-06

Research Assistant

- Conducted traffic surveys to justify a proposed traffic management system, focusing on pedestrian crossings, lane timer settings, and potential hazards.
- Recorded turning movement counts, calculated Peak Hour Factor, and collected data during peak and off-peak periods.
- Analyzed the impact of nearby buildings and infrastructure on traffic flow.

Isuzu East Africa 2023-07 - 2023-08

Process Engineer

- Designed and implemented tools for safety and ergonomics using SOLIDWORKS and AutoCAD
- Conducted work studies to identify process inefficiencies and implemented new procedures for optimization.

PROJECTS

Human Following Robot to Assist the Elderly 2023-09 -2024-06

Swinburne University of Technology

- Skills Used: SOLIDWORKS, Python3, C++, Artificial Intelligence, Computer Vision
- Developed an autonomous robot to assist elderly individuals by carrying their belongings and seamlessly following their movements. The robot uses a Raspberry Pi with a webcam for AI-powered human detection, tracking a marker worn by the target person with a TensorFlow Lite model and OpenCV. Ensured safety with an ESP32 module and Ultrasonic Sensors, allowing the robot to navigate around obstacles and provide practical assistance in daily activities.

Traffic Light Control System 2021-09 -2021-11

Swinburne University of Technology

- Skills Used: VHDL Programming
- Designed a traffic controller which was responsible for controlling the traffic and walk lights for a road intersection.

State electoral commission E-system 2021-09 -2021-11

Swinburne University of Technology

- Skills Used: C/C++
- Designed and programmed a voter application in Visual Studio that allowed users to register as candidates or voters. As voters, the app interface allowed them to vote, view voting summary as well as access a help feature.

REFERENCE

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