

CONTACT

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- [LinkedIn](#)
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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

- SOFT SKILLS
 - Creativity and Problem-solving
 - Teamwork and Communication
 - Leadership and Flexibility
 - Time management and Organization

- ROBOTICS
 - Embedded Systems
 - ABB Industrial Robots

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

- SOFTWARE
 - Solidworks
 - AutoCAD

- MANUFACTURING
 - Wiring (soldering,crimping, .e.t.c)
 - Power and Hand Tools

LANGUAGES

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

KELLY DIANG'A

ROBOTICS AND MECHATRONICS ENGINEER

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
 - Developed 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 and examined the impact of nearby buildings and infrastructure on traffic flow to optimize the system for safety and efficiency.
- Isuzu East Africa** 2023-07 - 2023-08
Process Engineer
 - Designed and developed tools for safety and ergonomics using SOLIDWORKS and AutoCAD.
 - Conducted work studies to analyze process inefficiencies and implemented new procedures to optimize operations.

PROJECTS

- Human Following Robot to Assist the Elderly** 2023-09 - 2024-06
Swinburne University of Technology
 - Skills Applied: SOLIDWORKS, Python3, C++, Artificial Intelligence, Computer Vision, Machine Learning, Prototyping
 - Developed an autonomous robot to assist elderly individuals by carrying their belongings and following their movements. The robot utilized a Raspberry Pi with a webcam for AI-powered human detection, employing a TensorFlow Lite model and OpenCV to track a marker worn by the user. Safety was ensured with an ESP32 module and Ultrasonic Sensors, enabling the robot to navigate around obstacles and provide practical assistance in daily activities.
- Food and Beverage Catering Website** 2024-02 -2024-06
Swinburne University of Technology
 - Skills Applied: Laravel Framework,PHP, MySQL, CSS, Javascript, Teamwork
 - Designed and developed for FoodEdge Gourmet Catering using the Laravel framework. The system features modules for catering management, customer profiles, payments, and analytics. It ensures data integrity with traceability, offers a user-friendly interface, and is accessible across devices. Security features, including password protection, safeguard sensitive data.

- State electoral commission E-system** 2021-09 -2021-11
Swinburne University of Technology
 - Skills Applied: C/C++, Teamwork
 - Designed and programmed a voter application in Visual Studio that enabled users to register as candidates or voters. The app interface allowed voters to cast their votes, view a voting summary, and access a help feature for assistance.

REFERENCE

John W.Karuku
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