KELLY DIANG'A

ROBOTICS & MECHATRONICS ENGINEERING GRADUATE |ASPIRING WEB DEVELOPER | UI/UX & FULL-STACK ENTHUSIAST

- 📞 +254718674384
- ✉️ kellydianga711@gmail.com
- 🌐 LinkedIn
- 💻 My Portfolio
- 📍 Kamiti Road, 65501-00607, Nairobi, Kenya

ABOUT ME

Robotics and Mechatronics Engineering graduate with a growing interest in software development and user-centered design. I enjoy building responsive, functional applications that blend clean design with solid engineering. With a strong foundation in programming languages, web technologies, and software design principles, I have gained hands-on experience through both coursework and personal projects. Currently aiming to advance my skills and career through a master's in software engineering and contribute to the development of innovative, high-quality software solutions in a global tech environment.

EDUCATION

Bachelor of Engineering (Honours) in Robotics and Mechatronics
Swinburne University of Technology (2025)

Relevant Coursework:
- Intelligent Systems
- Professional Issues in IT
- Creating Web Applications
- Managing Software Projects
- Calculus and Applications
- Linear Algebra and Applications

Kenya Certificate of Secondary Education
The Kenya High School (2018)

SKILLS

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

ROBOTICS
- ABB Industrial Robots
- AI/ML frameworks: TensorFlow
- Computer Vision: OpenCV, Mediapipe

WEB & CLOUD TECHNOLOGIES
- Python3
- C/C++
- HTML,CSS
- PHP
- MySQL
- JavaScript

LANGUAGES
- English (Fluent)
- Kiswahili(Fluent)

AWARDS AND RECOGNITIONS
- Interclub Futsal Tournament Champion – Swinburne Team (2024)
- Cultural Night Lead Performer – Africa Unites Club (2023)
- Dean's List of Top Achievers (2021)

PROFESSIONAL EXPERIENCE

PROCESS ENGINEER INTERN (2025, 2023)
Isuzu East Africa, Kenya
- Developed a web-based Part Verification and Distribution system using HTML, PHP, JavaScript, and MySQL, enhancing traceability and data management in the production workflow.
- Conducted work studies to analyze process inefficiencies and assisted in implementing new procedures to optimize operations.

RESEARCH INTERN (2024)
Swinburne University of Technology, Malaysia
- Developed traffic surveys to justify a proposed traffic management system, focusing on pedestrian crossings, lane timer settings, and potential hazards.
- Analyzed and examined the impact of nearby buildings and infrastructure on traffic flow to optimize the system for safety and efficiency.

ACADEMIC AND PERSONAL PROJECTS

PROFESSIONAL PORTFOLIO WEBSITE (2024 - 2025)
- Skills Applied: HTML, CSS, JavaScript, UI/UX Design, Web Design, Responsive Design.
- Designed and developed a personal portfolio website to showcase projects, skills, and achievements in web development, programming, and engineering.
- Integrated sections for project displays, contact information, and a responsive design for seamless user experience across devices.

FOOD AND BEVERAGE CATERING WEBSITE (2024)
- Skills Applied: Laravel Framework, PHP, MySQL, CSS, Javascript, Teamwork
- Developed a full-stack web application for FoodEdge Gourmet Catering using Laravel framework, with a responsive and intuitive interface for both mobile and desktop users
- Implemented modules for order management, customer accounts, payments, and analytics
- Ensured data integrity through traceability and security via authentication and access control

AI-POWERED HUMAN-FOLLOWING ROBOT (2023 - 2024)
- Skills Applied: SOLIDWORKS, Python3, C++, Artificial Intelligence, Computer Vision, Machine Learning, Prototyping
- Designed a robot to assist elderly individuals using Raspberry Pi, TensorFlow Lite & OpenCV
- Integrated safety navigation with ESP32 and ultrasonic sensors

REFERENCE

John W.Karuku
Isuzu East Africa/Manager
📞 +254 723 447 860
✉️ john.karuku@isuzu.co.ke

FeiSiang Tay
Swinburne University / Senior Lecturer
📞 +60 82-260 851
✉️ fstay@swinburne.edu.my