

Philip Katiechi Aswa

Mechatronics Engineering Graduate

I am a consistent and eager mechatronics engineering graduate with knowledge in cross-platform software development (mobile, web and desktop), PCB circuit and mechanical design and development, among others. I am passionate about Python, Data Science, Machine learning and Networking.



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🌐 <https://www.linkedin.com/in/philip-aswa-8495b2225/>

My professional website: <https://philipaswa.vercel.app>

EDUCATION

Bachelor of science in Mechatronics Engineering

Dedan Kimathi University of technology

2nd Class Honours

04/2019 – 12/2023.

Kenya Certificate of Secondary Education

Lenana School

A-

02/2015 - 11/2018.

Kenya Certificate of Primary Education

Catholic Parochial Primary School

A (407)

01/2007 – 10/2014.

WORK EXPERIENCE

Embedded Systems Developer and Research

Centre of Development of Electronic Devices

05/2023 - 12/2023.

Achievements/Tasks

- Development of microcontrollers and their software.
- Development of cross platform apps and full-stack websites.
- Implemented bug fixes and updates in software and hardware.
- Analysis of data and processing new information as required

Contact : Mr. Julius Karanja – Manager, CDED

Industrial Programmable Logic Control Developer

Siemens Centre

02/2023 - 05/2023.

Achievements/Tasks

- Development of Programmable Logic Control (PLC) software.
- Development of XR (extended reality) mobile, web and desktop apps for visualising the PLC systems.
- Development of Digital Twin integration skills for robotics and conveyor systems.
- Development of Robotics Operating System (ROS2) in Linux

Contact : Prof. Eng. Jean Bosco– Director, Siemens Centre

Electrical and Mechanical Systems

Maurice Auto Garage

02/2022 - 05/2022.

Achievements/Tasks

- Operation development and maintenance in automobile
- Computerised vehicle problem analysis
- Engine and system analysis

Contact : Mr. Maurice– Manager, Maurice Autogarage

VOLUNTEER EXPERIENCE

Microsoft Game of Learners Junior Program Trainer

10/2022 - 11/2023.

Microsoft Students Community

Machine Learning Student Trainer

01/2023 - 11/2023.

Google Techies' Student Community

Event Planning and Mentorship

05/2023 - 11/2023.

Youth Hub

SKILLS

HTML CSS React JavaScript Java Kotlin Dart
C++ C# Python MySQL PCB, Electric Circuit Designing
ROS2 and PLC Shell Scripting Full Stack Web Development
Mechanical System Design Problem solving Data Science

More of my projects in

<https://philipaswa.vercel.app/projects>

CERTIFICATES

Industrio 4.0 Mechatronics System Designer

08/2023.

2nd Runners-up award Certificate of Achievement from international WorldSkills Competition 2023 edition, Siemens Industrial Automation.

I2B Business Plan certificate

09/2023.

2nd Runners-up in the Idea to business competition 2023 edition.

Amazon Cloud services Certificate

09/2022.

Certified Amazon Cloud services student (DevTown) in 2022.

LANGUAGES

English

Full Professional Proficiency

Kiswahili

Full Professional Proficiency