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Nairobi, Kenya

Warmware Labs

TECHNICAL SKILLS

Programming in:

- C++
- Dart
- Python

IoT System Development using:

- Raspberry Pi
- AVR Atmega chips

Android apps, iOS apps and web development using Flutter.

Database Design and implementation using:

- SQL
- NoSQL (Firebase)

Engineering Simulations and Design using MATLAB.

PCB design and Through Hole components soldering.

INTERESTS



Programming



Puzzle games



Video games



Cycling Cycling

ALVYNE WAMWEA MWANIKI

Electrical Engineering Student

Hard-working, eager-to-learn final-year electrical engineering student. Equipped with experience in the development of IoT devices. Proficient in programming applications for multiple platforms: Windows, Linux, Android and iOS.

EXPERIENCE

Gearbox Kenya Internship

July 2021 - October 2021

- I programmed the main microcontroller of an IoT-enabled Access Control System.
- The components connected to the main microcontroller included an RFID scanner, ultrasonic sensor, LCD, 4x4 keypad and Wi-Fi module.
- A fully-functional prototype of the system was implemented and tested.

Nano-Satellite Platform University of Nairobi (NaSPUoN) development

October 2020 – September 2021

- NaSPUoN is a CubeSat bench model developed in UoN in partnership with KSA (Kenya Space Agency). KSA offered a grant of KShs 1 million.
- I was the Electrical team leader.
- I worked on On-Board Computer and Communications subsystem.
- I programmed, implemented and tested the satellite communication software as well as Ground station software (Windows form Application).
- In November 2021, NaSPUoN was ranked best on merit compared to CubeSats from four other Kenyan universities that were also offered a similar grant by KSA.

IEEEXtreme 14.0 Programming competition

October 2020

- ✓ I was a member of team TitanZ.
- We finished 1st in Kenya, 33rd in region R8, 119th globally.

Android App Development (Hearts)

April 2020 – October 2020

- During Covid lockdown, I learnt programming in Flutter for Android and iOS apps from online tutorials.
- I programmed a hearts game and released it in Google Play Store (Hearts MultiPlayer -Warmware).

COURSES AND TRAINING

Hands-on Education Program for Technical Advancement (HEPTA SAT) October 2019

EDUCATION

Ongoing: B. Sc. In Electrical and Electronics Engineering

University of Nairobi

2017 - Present Year: Fifth

KCSE High School Certificate Strathmore School

2013 - 2016

GPA: 3.97/4.0 Mean Grade: A- (80)

REFEREE

Dr. Raymond Mutugi Kiruki

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