




 alvynew@gmail.com

 +254 0796 109 975

 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)

INTERESTS



Programming



Internet of Things



Puzzle games



Video games



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.

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.

IEEEExtreme 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

0113765522