ALVIN KARANJA

Proficient Programming Languages:
- JAVA
- C
- Python
- MATLAB

Computer Science Modules Completed:
- Advanced Computer Architecture
- Operating Systems and Computer Networks
- Software Engineering
- Design of Information Structures

Engineering Modules Completed:
- Systems Modelling, Simulation and Computation
- Electrical and Electronic Circuits
- Engineering Business Management

CURRENT EDUCATION

Second year Computer Systems Engineering (Undergraduate). University of Warwick, Coventry, United Kingdom.

Computer Systems Engineering is a fully integrated degree taught jointly by the universities department of computer science and school of engineering. It provides a comprehensive understanding in the principles and practice of computer science, in addition to the fundamental technology of digital electronic systems. During the first two years of my degree I have studied core material in computer programming, data structures and algorithms as well as system modelling, electronic devices and circuits.

During my second year I have deepened my understanding of computer architecture having completed courses in:

- Advanced Computer Architecture
- Electromechanical System Design
- Software Engineering
- Digital Systems Design

All of which are concepts which will aid me in my third and final year where I will undergo a bespoke module in high-performance embedded systems design in addition to completing an individual project.

NOTABLE EXPERIENCE

Warwick Racing AI

I am a proud member of the university of Warwicks formula student team, more specifically I am a member of the Warwick Racing AI team. In the AI team we have been tasked with building a self driving vehicle that is built completely from scratch with the aid of the Warwick Manufacturing Group facilities located on campus. I primarily work on electrical components of the vehicle such as the battery modules, in addition to software components of the vehicle such as the CAN bus system.

Warwick East African Society

I was an executive member of the East African Society at the university, a thriving community on campus which consisted of students from the various countries from the East African region. I was in charge of planning and managing events for the society with the goal of expanding the society's sphere of influence and I am proud to say that during my tenure the executive team was able to grow the society to one thousand followers on TikTok.

Fintech Transformative Technology

I've had the privilege of working with the Fintech firm 'Fintech Transformative Technology' at their Nairobi branch where I worked as an intern software developer aiding in web development.

ACADEMIC HISTORY

Brookhouse International School: 2013 - 2021
University of Warwick: 2021 - present

ACADEMIC CREDENTIALS

A-Level Results:

Mathematics	A*
Chemistry	A*
Physics	A*

IGCSE Results:

Mathematics	A*
Additional Mathematics	A
Biology	A*
Chemistry	A*
Physics	A*
Computer science	A
Geography	A
English language	A
English literature	A

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