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Education

10/2019 – 07/2023

Imperial College London, *Electronic & Information Engineering MEng*

A course that develops knowledge in the Processing of Information, and Computers. Including Computer Architecture, Data Structures, Communications and, Control Systems.

09/2012 – 08/2019

The Manchester Grammar School

A-Levels - A* A* A A : Maths, Electronics, Further Maths, Physics

GCSEs - A* (Maths, English Lit + Lang, Physics, Chemistry, Biology, Electronics, Greek + Latin, French), A^ (Further Maths), A (RS Islam)

Projects

Analogue Music Synthesiser

Created in LTSpice a simulated analogue synthesiser capable of playing an octave in C Major with various modulation effects such as an LFO, envelope generator, and VCF which offered unique sounds, which are characteristic to analogue synths.

Line Following Buggy

Modified a simple buggy so it was capable of following a 'track' of black tape through turns by using simple electronics components and a microcontroller programmed in assembly.

C Compiler

Designed a C90 to MIPS compiler, using C++, that offered support for wider range of C keywords, with an emphasis on strong foundations that support code readability and future feature implementation.

Extra-Curricular

Southampton National Cipher Challenge, 2nd Place 2017-18

As a team, we decrypted given ciphertexts across 8 weeks using our collective programming and cryptography experience, teamwork, and intuition. We finished 2nd in the country receiving an £800 cash prize.

School Volunteering

Helped with various events such as open days / after school speakers.

Volunteered at a local primary school helping with reading as well as numeracy/literacy.

Presently a STEM Outreach ambassador for Imperial College London.

Skills

C++

System Verilog

Excel

Assembly (MIPS, PICAXE)