

Education:

Imperial College London - MEng Electronic and Information Engineering

2018 - present

- * My course explores the spectrum of modern computing topics, including software engineering, digital hardware and architecture design, communication systems and AI.
- * Currently studying: Machine/Deep learning, Computer Vision, Robotics, Digital Signal Processing
- * Notable 2nd year results: *Computer Architecture (93)*, *Digital Electronics (88)*, *Software Engineering (80.5)*, *Signals and Linear Systems (80)*, *Language Processors (80)*. Year average: **80**.
- * 1st Year average: **74**

Truro School

2011 - 2018

- * A Levels: *Mathematics, Further Maths, Physics, Chemistry A*A*A*A*; GCSEs: **11A*s**
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Technical Projects:

- * IBM/2nd year architecture project: creating work products for theoretical contact tracing system.
 - * C subset to MIPS I compiler, and MIPS I emulator, in C++.
 - * ICHack hackathon: measuring news article novelty and similarity using text embeddings (Universal Sentence Encoder).
 - * Genetic algorithms for solving the high dimensional case of the game Mastermind.
 - * 1st year image processing group project: a real-time, FPGA-based snooker table shot trajectory predictor, focusing on optimisation with reference to the specific capabilities of the FPGA.
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Work Experience:

Data Analytics Consultant - Mindsheet Ltd.

2020 (1 we.)

- * Aircraft maintenance problem.
- * Processing and clustering natural language identifiers.

Software Engineering Intern - ARM

2020 (3 mo.)

- * Contributing to a large Python Github repository, used within the company for test-benching.
- * Data driven, iterative process of development, often involving significant investigations into the potential solutions and their consequences.
- * Strong focus on clean Git version tree and commits.
- * Implementing solutions for an issue within a large, stateful class hierarchy / composition.

'Mission to Mars' Software Cornwall Course

2017

- * Team based Arduino and robotics course with a focus on iterative design.
 - * Our team won the course competition with the lowest expenses and most accurate robot, replacing the exemplar code provided by Software Cornwall.
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Awards:

- * 2020 Dean's List for Academic Excellence (top 10% in cohort).
 - * 2018 Chemistry Olympiad - Silver.
 - * 2017 Cambridge Chemistry Challenge - Bronze.
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Skills and Languages:

- * Hardware design using the Vivado software suite, CircuitMaker, Quartus Prime. LabVIEW.
 - * C++; ARM, MIPS1 instruction set; Python - Numpy, Pandas, SKLearn, Keras; MATLAB; SQL; Prolog; Git.
 - * German (intermediate).
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Other Achievements and Interests:

- * Second place in 55mi Ten Tors. 2017
- * Bronze, Silver, Gold Duke of Edinburgh. 2014 - 2017
- * Trumpet grade 6; classical guitar grade 7.
- * In my spare time I enjoy running, climbing, swimming and photography.