William Gasson
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Profile

Practically minded and technically strong: I have taken the more mathematically intense courses and excelled in lab work. In my 4th year I have grasped the hard parts of machine learning and optics while engaging in hands-on experimentation and coding for as part of my research into lensless cameras for my 4th Year Project.

Tenacious and focused: I have been a long distance runner completing marathons and half marathons. My performance has improved year on year by sticking to the program and keep strong time management. I have stamina for the long road that is a science PhD as part of a top research team.

University of Oxford, (October 2017 - present)

Studying for Engineering Science for MEng award in 2021 at St Edmund Hall, 2.1 expected
First & second year courses: Mathematics, Electronics & Information Engineering, Stuctures & Mechanics, and Energy systems
Third year courses: Electronic Devices, Circuits & Communications, Information Engineering, Control Systems, and Software Engineering
Fourth year courses: Optoelectronics, Machine Learning, Computer Vision, Robust Control, Probability and Mathematical Techniques
Year 3 Project, Team design of a search and rescue drone network: Focused on communications part of project looking at how to connect a large array of remote nodes.
Year 4 Project, Lens-less imaging system: Researching image reconstructions from a linearly spatially invariant transformation and non-spatially invariant through training from a known scene.

Harrow School, (2012 – 2017)

A levels (2017): 4A* Maths, Further Maths, Physics, Chemistry, A Design and Technology
GCSEs (2015): 8A* 3A 1B
School prizes: American Engineering Award for Design, Computational Physics and Engineering Award, Silver and Gold Olympiad Awards for Maths, Physics and Chemistry

Engineering experience

Telecom IT Department, Jordan: Remote internship with Umniah, working on caching in their data analytics group (Summer 2020).
Machine Manufacturer, South Africa: Internship, provided broad experience from wiring up and coding PLCs to laser cutting sheet metal (December 2018).
Coding Summer School, UCLA Engineering Faculty: Course required designing and then programming self-driving cars, I used solidworks to design the body of the car and programmed an Arduino to respond to sensors to control the direction of the car. (Summer 2016).