

Alexander Gibson

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Education

Imperial College London | 2018 - present

MEng Design Engineering (high 2:1 over 3 years) - an engineering degree with emphasis on futuristic innovation and intelligent design of systems and products, with a focus on sustainability and humanity. Key modules: Computing, Big Data and Optimisation, Mechatronics and Physical Computing, Engineering Mathematics, Sustainable Design.

Selected projects:

- **Futures | Opaque | [Portfolio](#) (1st):** Working in a team of 5, we created Opaque - a privacy company that aims to preserve the home as the last safe space from invasive data collection in 2040, giving data control back to the user.
- **Engineering Design Project | EDM 120 | [Portfolio](#) (1st):** Carried out the research-led creation of a remote learning device for musicians. The full design process was considered; product functionality, assembly process and cost, and design for manufacture were prioritised.

Rugby School | 2013-2018

11 iGCSEs - 10 A*, 1 A

3 Cambridge Pre-Us[†] - D2 in Maths and Physics, D1 in Art and Design.

Work Experience

IMRSVRay Placement | Apr - Sep 2021

Completed a 6 month placement with an audio technology start-up, where we took the primary product from ideation to working prototype. As the company was in its early stages, another intern and I had full autonomy on the design of the physical mechanisms, electronics and aesthetics. An example of a physical aspect of the product was the creation of a counterweighted height adjustment mechanism that used gears, linear actuators and a servo motor to lower/raise a moving part of the product whilst simultaneously changing the pitch.

Emotech Internship | Jul - Sep 2020

Worked as a Design Engineer intern at Emotech, a startup company that specialises in refined human interaction with technology, with a focus on using multi-modal AI to improve language education. During my two months at the company, I created complex animations for the main company website and used HTML and CSS knowledge to design the website for a new Emotech AI application, requiring detailed analysis of the company direction.

Retail | 2018

Two month retail job - customer interactions honed my communication and diplomacy skills.

Skills

Computing

Python 3.9, C++, MATLAB, HTML, CSS

Proficient in Python as part of the computing module. Used C++ to write code to drive motors and provide interactions for a robot. Coded portfolio website using HTML and CSS.

Design

Adobe Creative Suite, SolidWorks 2020

Can efficiently apply InDesign, Illustrator, After Effects and Photoshop. Regularly use SolidWorks to create detailed CAD models of design projects.

Development

Sketching, UX/UI, User research, Graphic design, Web design

[†]D2 = equivalent of A* at A Level, D1 higher than D2