

# BEN COBLEY | DESIGN ENGINEER

## SUMMARY

Interdisciplinary design-focused engineer. Skilled in technical prototyping at the intersection of hardware and software. Six months experience at Google X, productising a cutting edge sensor technology: 2 Patent Applications in progress. Top 10% of the class at Imperial College London.

## EDUCATION

**Dyson School of Design Engineering, Imperial College London** | *MEng Design Engineering*    *October 2016 to present*  
On track for First Class Honors

Placed on Dean's List for Academic Excellence [Top 10% of Class]

Modules include: industrial & human-centered design, design for sustainability, mechanics, CAD and FEA, statistics for big data, electronics, mechatronics, computing, production and materials, robotics [[portfolio of work](#)].

**Leighton Park School** | *Head of House*    *September 2009 to July 2016*

A Level | Math, Physics, Art and Design [A\*AA]. AS Level | Further Math [A]. GCSE | [6A\* 4A].

Extended Project [A] | *Will there be a future 'fifth mode' of transport?*

## EMPLOYMENT

**Google X** | *Rapid Evaluation Intern*    *April 2019 to September 2019*

6-month Placement in Mountain View, California; prototyping a novel sensor technology with an early-stage project team. Championed a new hardware generation, reducing overall size by 4x. Took the technology and built the team's first demonstrative 'product', including a touchscreen UI. Filed 2 Patent applications as primary author [in progress].

**Dyson** | *Research, Design and Development Intern*    *July 2018 to September 2018*

Tackled design problem in an upcoming product. Responsible for production parts, from concept generation to design-for-manufacture. Presented functional prototypes to Senior Product Managers, demonstrating ability to understand and meet project requirements. Offered Graduate role following internship.

**Brompton Bicycle** | *Design Intern*    *July 2017 to August 2017*

Designed and fabricated a new Brompton product as team of interns; from blank sheet of paper to 3 rideable, foldable prototype bicycles. When released, it will be Brompton's first new bike format in 40 years.

**Dyson School of Design Engineering** | *Undergraduate Teaching Assistant*    *October 2018 to present*

Invited to become Teaching Assistant through top-of-class performance in *GIZMO: Physical Computing and Mechatronics*. Teaching Raspberry Pi and Arduino fundamentals, writing instructional documentation and assisting project work.

## EXPERIENCE

**Design Engineering Society** | *Makerspace Team & Events Secretary*    *October 2017 to present*

Coordinated application for new Rapid Prototyping Lab and Makerspace. Responsible for the organization of networking and social events, workshops and trips, providing a richer experience for Dyson School students. Founder and organizer of annual departmental ski trip for over 60 participants.

## TECHNICAL SKILLS

**Design** | UX, UI, human-centered design, graphic design, storytelling

**Visualize** | Adobe Photoshop, Illustrator, InDesign and XD

**Prototype** | Rapid prototyping, laser cutting, fabrication

**Control** | Mechatronics, Raspberry Pi and Arduino

**Connect** | Wireless communication, PCB design, chip-level interfaces

**Code** | Python, MATLAB and C. HTML, CSS and JavaScript

**CAD** | SolidWorks, SolidWorks Simulation, Keyshot

## INTERESTS

Tech, design, and self-build projects. Music, running, and architecture.

## VOLUNTEERING

Built relationship with Ugandan Education charity; visited Uganda twice, fundraising £4000