

# BEN COBLEY

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## EDUCATION

**IMPERIAL COLLEGE LONDON** | *MEng Design Engineering*

Oct '16 - Jun '20

Four years practising a highly creative discipline at the *Dyson School of Design Engineering*. The degree explores innovative solutions to modern challenges at the intersection of *engineering* and *design*: shaping a diverse skillset across product development, technical innovation, user-centred design and rapid prototyping.

**First Class Honours, Highest Ranking Student of the Year [76%]**

Master's Thesis: *OnionBot: A System for Collaborative Computational Cooking*. [Paper>>](#)

IEEE RA-L: *Soft Tissue Characterisation Using a Novel Robotic Medical Percussion Device (...)* [Paper>>](#)

## EXPERIENCE

**TRUECIRCLE AI** | *Design Engineer (London, UK)*

Nov '21 - present

Joined a climate-tech startup being formed to tackle the world's waste problem; TrueCircle's ground-breaking tech enables recycling facilities to recover valuable material more effectively and sell more efficiently.

Applying a problem-solving mindset to challenges from the first prototype through to rolling out a polished product into 25+ recycling facilities internationally. Now a team of 30+.

**GOOGLE X** | *Rapid Evaluation Intern (Mountain View, California)*

Apr '19 - Sep '19

6-month Placement at X, *The Moonshot Factory*; prototyping a novel sensor technology with an early-stage team. Championed a new hardware version, reducing overall size by 4x. Modified the technology to build the team's first demo 'product', including a touchscreen UI. Filed 2 Patent applications as primary author.

**DYSON** | *R&D Intern (London, UK)*

Jul '18 - Sep '18

Tackled a design challenge in an unreleased product. Presented functional prototypes to Senior Product Managers, demonstrating ability to understand and meet project design requirements.

**BROMPTON BICYCLE** | *Design Intern (London, UK)*

Jul '17 - Aug '17

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

## SKILLSET

**Design** | Design-thinking mindset and iterative approach to prototyping. Strong foundation in user experience and usability. Comfortable in fast, entrepreneurial environments. Excellent communication and presentation skills.

**Engineering** | Technical prototyping to test hypotheses. Bringing ideas to life with mechanical design, microcontrollers, 3D Printing & workshop fabrication. Turning prototypes into manufacturable products. Strong ability to quickly apply principles in new contexts.

**Software** | Confident in Python algorithmic design and physical + digital interfaces. Built own websites in React + HTML/CSS/JS. Good understanding of ML concepts at a prototype level. Expert at CAD [SW, F360, NX]. Competent at PCB design & ROS Robotics.

## AWARDS

**Head of School Achievement Prize**

**2020** | Highest Overall Degree Result

**Dean's List for Academic Excellence**

**2018/2019/2020** | Top 10% Year Result

## PATENTS

B. Cobley, R. Mehta, R. Gogoana:

*Machine olfaction system and method*

[\[US16/721,035\]](#) pending 2019]

B. Cobley, R. Mehta:

*Machine olfaction system and method*

[\[US17/028,245\]](#) pending 2020]