BEN COBLEY

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EDUCATION

IMPERIAL COLLEGE | *Design Engineering [MEng]* *London, UK | Oct'16 - Jun'20*

Demonstrated academic excellence in Design Engineering, a highly creative discipline taught at the Dyson School. Built a diverse skillset across product development, technical innovation, user-centred design, and enterprise.

- **Achieved First Class Honours and Highest Overall Degree Result of the 2020 Cohort [76%].**
- Robotics Group Project [89%]: *Soft Tissue Characterisation Using a Novel Robotic Medical Percussion Device With Acoustic Analysis & Neural Networks*. IEEE RA-L published, IROS 2022 Best Application Paper. Project>>
- Master's Project [83%]: *OnionBot - A System for Collaborative Computational Cooking*. Project>> GitHub>>
- Founded a departmental ski society, establishing and leading a team that has generated £100K+ of sales.

EXPERIENCE

TRUECIRCLE AI | *Design Engineer* *London, UK | Nov'21 - Dec'22*

TrueCircle AI is a climate-tech startup developing ground-breaking computer vision hardware that enables recycling facilities to recover valuable material more effectively and sell material more efficiently.

- Launched TrueCircle's MVP hardware and led installation of an initial pilot system at a UK recycling facility.
- Outlined roadmap for reducing failure rate. Implemented strategy and led development of new hardware version, eliminating 3 key known failure modes and saving £1000s in maintenance costs.
- Demonstrated technical leadership; designed and implemented processes to hand over system installations to a 3rd-party supplier, proving product scalability; a key requirement for TrueCircle's upcoming Series A.

GOOGLE X | *Rapid Evaluation Intern* *Mountain View, USA | Apr'19 - Sep'19*

Six-month placement at X, Google's Moonshot Factory, an organisation formed to apply Google's resources to intractable problems. Collaborated with an early-stage team evaluating the feasibility of a novel sensor technology.

- Championed and built a new hardware generation, reducing size by 4x while increasing sensitivity by 2.5x.
- Integrated sensor data into production ROS Robotics software (Python) for Mineral, Google's Farming Robot.
- Filed 2 Patent applications as primary author.

DYSON | *Research and Development Intern* *London, UK | Jul'18 - Sep'18*

- Owned development of a new interface on an unreleased product. Received return offer upon graduation.

BROMPTON BICYCLE | *Design Intern* *Malmesbury, UK | Jul'17 - Aug'17*

- Collaborated as an all-intern team; challenged to redesign and fabricate 3 prototype bikes in just 3 months.
- Project received CEO approval for commercialisation: it will be Brompton's first new bike format in 40+ years.

SKILLSET

Engineering | Skilled in technical prototyping to test hypotheses:

- Confident in Python algorithm and interface design. Project>>
- Built own websites in HTML/CSS/JS. Project>>
- Good understanding of ML at a prototype level. Project>>
- Strong ability to apply principles in new contexts. Project>>

Design | Design-thinking mindset & iterative prototyping approach:

- Strong foundation in UX & usability. Project>>
- Comfortable in fast, entrepreneurial environments. Project>>
- Excellent communication and presentation skills.

AWARDS

Head of School Achievement Prize 2020 | Highest Overall Degree Result.

Dean's List for Academic Excellence 2018/2019/2020 | Top 10% Year Result.

PATENT APPLICATIONS

B. Cobley, R. Mehta, R. Gogoana [pending]: *Machine olfaction system and method.* US16/721,035 [2019] US17/028,245 [2020]