Oliver Colebourne

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Education

Imperial College London - MEng, Masters Design Engineering   (Currently 4th year) Sep 2018 - July 2022
- Top 10% of the cohort (Dean's List) with 1st class honours in years 1, 2 & 3 - overall average 78%.
- Relevant modules: Industrial Design, Electronics, Mechanics, Mechatronics, Computer Science, DFMA, Mathematics, Robotics, Entrepreneurship, CAD, FEA, Thermodynamics, Machine Learning, Optimisation.
- Projects: Nova - Designed and developed for manufacture a handheld, battery-powered, robotic toy to teach children Python programming. Built a functional, near end-product, hardware prototype with touchscreen UI and connected web app; Opaque; Foto; ARTOPS.
- Extra-Curricular Horizons, Entrepreneurship - Pass with Merit.

A-Level - 4A*s in maths, further maths, physics and chemistry   2018
GCSE - A^ in further maths, 11A*s   2016

Experience

Locket - Product Manager / Founders Associate - Reference   April - Sep 2021
- Fintech/insurtech startup revolutionising home insurance through smart technology.
- Agile product management of iOS/Android app, and web quote & buy from design to launch. Created and prioritised tickets for 5 developers, coordinating with designers, marketers and key stakeholders.
- Worked with the UX/UI team on Figma building app prototypes. Gathered feedback from customers, partly via UserTesting, and my suggestions resulted in changes implemented with the recent rebrand.
- Made several commits to the Angular webapp. Led carbon footprint calculation and other side projects.
- Promoted in June, from Engineering Intern to Product Manager / Founders Associate.

Deana Consultants Ltd. - Co-Founder / Design Engineer   2020 - 2021
- After winning LEON Restaurant's hackathon, we were asked to further develop our IoT smart-store.
- Negotiated contracts & intellectual property, prototyped and applied for innovation grants.
- Unfortunately due to COVID-19 the project was postponed indefinitely.

Imperial College London - Ideas Lab, Fullstack Developer   July - Sep 2020
- Architected and developed software / hardware for IoT system for new Imperial College makerspace.
- Built React frontend for a set of iPads & Node.js REST backend with MongoDB for controlling the space.
- Created ESP32 ID-card readers and used MQTT / smart plugs to power control machinery.
- Project presented at Uni. of Sheffield 'UNIMAKER' Conference 2020 and soon will be made open source.
- Now provide ongoing technical support to the space, which supports >500 society member's projects.

Firetech - Tutor   July - Sep 2019
- Taught Arduino, VEX robotics, videography and digital design to groups of 9-17 year olds in week-long summer camps. Gained experience of conveying technical knowledge in an easy to understand way.

Skills

Code	Python, PyQt5, Django, React, Node.js, REST APIs, HTML, CSS, MySQL, MongoDB, MATLAB, Git, MQTT
Design	Solidworks, Keyshot, Figma, Adobe Suite (Id, Ps, Ai, Ae, Pr, Lr, Xd), Miro
Proto	Raspberry Pi, Arduino, ESP32, 3D printing, electronics, mechatronics, laser cutting, metal and woodworking.
Product	ClickUp, Clubhouse, UserTesting, Agile

Achievements

2019 - 2021	Dean's List for Academic Excellence in years 1,2 & 3 of undergraduate study (finishing top 10% of my cohort).
2020	LEON Restaurants X Imperial Hackathon category and overall winner for our IoT smart-store concept.
2018	The Duke of Edinburgh Gold Award.
2017	Captain of Rowing at King's School Worcester.