Edmund Cox

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Education

University of Bath - MEng Mechanical Engineering with Placement Year (2015 - 2020)
Current: 2:1 | Predicted: First

Developed key skills such as quantitative analysis (including writing software to accomplish repetitive and computationally extensive tasks), trusting intuition where appropriate (in conjunction with general 'best practice' advice from lecturers and online sources), technical writing, and working with peers on group design and business projects.

Secondary School – King's College School, Wimbledon, London (2010 - 2015)

A Levels A* A* A* in A2 **Mathematics, Physics and Chemistry** & an **A** (highest grade) in AS **Economics.**

(I)GCSEs **10 A*s**, as well as a **distinction** (highest grade) in the continuation French diploma.

Relevant Extracurricular Learning

Microeconomics 14.100x (by MIT, via edX, Audit) - 2018
- Undertaken to refresh and expand AS-level knowledge, approach business questions from a more quantitative viewpoint, and challenge potential biases accumulated through education.

Microsoft Excel for the Data Analyst (by Microsoft, via edX, Audit) – 2018 (In Progress)

Business Strategy Specialisation (by the University of Virginia, via Coursera, Audit) (In Progress)

University of Bath Consulting Society (Ongoing)

Experience

OC Robotics | A GE Aviation company (OCR) - July 2017 to July 2018 (Bristol) – Placement Mechanical Engineer
- OCR is a high-tech company designing highly flexible robotic 'snake' arms for use in confined and hazardous spaces (e.g. performing maintenance on aircraft engines, nuclear decommissioning, oil & gas operations, etc.).
- Successfully brought products components from ideas to fruition, starting with designing parts for production systems (using both quantitative and intuitive analysis), then producing engineering drawings conveying technical requirements, and finally choosing manufacturers with considerations of capacity, capabilities and cost.
- Facilitated sourcing and procurement, working with suppliers to clearly communicate what our use case was (considering confidentiality), whilst honing my research skills finding suitable stock products that deflated costs.
- Evolved to be a primary resource for system analysis, mainly working with Python, allowing for validation of systems to be gained and presented to stakeholders, demonstrating what was achievable. I formulated test plans, wrote analysis scripts, then created test reports and slides that I presented in formal or informal meetings.
- Personally developed my business acumen (in strategic and project management senses), by being involved in a small company where senior leadership team was readily accessible and open regarding the strategic direction of the company, both in in-depth company meetings and in considered answers to my questions and reflections. I also saw how OCR adapted to the (June 2018) acquisition by GE Aviation, and the integration of the assets.
- Engaged with site visits, including driving robots on deployments at the end of projects, delivering purchased systems, and visiting manufacturers, being mindful of presenting the company well to help gain future business.

Williams Advanced Engineering (WAE) - Summer 2014 (Wantage, Oxfordshire) – Work Experience
- Interacted with engineers and business specialists across various departments, acclimatising myself to the variety of services WAE can provide, as well as developing an understanding of an engineering consultancy's business model, particularly with reference to how they develop project requirements and initially gain business.

Momart IT Department – Summer 2013 (Canary Wharf, London) – Work Experience
- Experienced how technology aids the function of a logistics company, and how beneficial high investment in backend systems is to prevent potential end-user complaints and losses. I was also involved in acting as a mobile helpdesk, fixing employees problems and explaining clearly what was done, preventing time-costly recurrences.

Teaching Mathematics and Science – 2013 to 2015 (Merton, London) - Voluntary Work
- Conducted lessons with a group of friends for GCSE age pupils from surrounding schools, specifically for both classes of 'gifted and talented pupils' as well as groups who were struggling to achieve a 'good-pass'. Preparation for the lessons included crafting worksheets as well as presentations, whilst practical work along with demonstrations featured heavily to keep the children engaged, and asking us relevant questions.

IT Skills

- Excel
- PowerPoint
- Word
- Outlook
- Windows (-10)
- Mac (-10.13)
- Python
- MATLAB
- PHP (with MySQL)
- HTML
- WordPress (-4.7)
- Tableau

Personal Interests

On average I train for **powerlifting** five days a week, viewing lifting as a form of healthy personal competition, as well as reaping benefits from being in good muscular and cardiovascular fitness. Through rehabilitating a (fully recovered) back injury, I also rediscovered an enjoyment of **swimming**, which I'm keen to further refine my technique with.