Sebastian Grubb

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Education

2010-2014 London, UK	**Imperial College London** - *M.Eng Electrical and Electronic Engineering* First Class Degree • <u>Modules include</u>: Mathematics (94%), Advanced Signal Processing (95%), Control Engineering (80%), Machine Learning for Computer Vision, Intelligent & Probablistic Data and Real-Time Signal Processing • <u>Masters Project</u>: Machine Learning - Research into providing execution time of recommender systems by intelligently selecting unknown cells in matrices. Work featured in best final year projects. • <u>Third Year Project</u>: Led a group of 8 people in planning and assembling a home energy optimisation system and took part in market research and development of machine learning algorithms
2008-2010 Paris, France	**International School of Paris** – *International Baccalaureate* 742 UCAS points • Obtained 42 out of 45 points with 4 higher level subjects (Top 1% out of 50,000 international candidates)

Awards and Achievements

2011-2014 Cambridge, UK	**UKESF Scholarship** *(Awarded £1,500/year for 3 years)* • The UKESF (UK Electronic Skills Foundation) scholarship is awarded the best students in Electronic Engineering and Computer Science at any of the 8 UKESF partner universities
2010 London, UK	**Maurice Hancock Award for outstanding results** *(Awarded £1,000)* • Presented to top 10 students (out of 200) in first year of Electronic & Electrical Engineering

Experience

Jul 14-Present London, UK	**Eddy Labs** (Founder.org Class of 2015) – *Machine Learning Engineer* • Eddy is a home automation startup that, by the use of sound, detects a wide range of home events • Fully designed software roadmap for product. Wrote initial alpha prototype in Python on Raspberry Pi. Machine learning techniques used include: Bayes net, neural networks and SVM. • Build first iterations of technology stack: website, back-end, signal processing and activity detection
October 2013 Milan, Italy	**The Boston Consulting Group** – *Unlim-IT-ed (European IT Business Strategy 3 day Workshop)* • One of 50 students selected for a course on how technology-based innovations create competitive advantage • Worked in a team on IT strategy project to turnaround insurance company with findings presented to CEO
July-Sept 13 Cambridge, UK	**ARM Holdings plc** – *Product Management and Marketing Intern* • Worked in a team of product managers conducting competitive analysis on products and companies to help with the launch of a microprocessor across automotive, consumer electronics and industrial markets • Identified features to be implemented in future microprocessors to maintain competitive advantage • Complimented for providing a fresh view to the team in presenting market analysis, product findings and suggestions in appropriate matrix or 2D graph views, allowing clear communication of ideas
July 2013 London, UK	**Oliver Wyman** – *Insight Day* • Worked as part of a team on forming recommendations to return back to profit a low-cost airline
July-Sept 12 Cambridge, UK	**ARM Holdings plc** – *Summer Engineer Intern* • Created a new software tagging language in Perl for use in a processor security module by analysing the strengths and weaknesses of a previously used language (XSLT) • Designed a text pattern detection program to efficiently tag data in very large text/VHDL files
April 2012 London, UK	**J.P.Morgan** – *Spring Week Intern* • 3rd best team in a programming and presentation challenge organized over a period of 2 days

Responsibilities

2012-2014 London, UK	**Imperial Entrepreneurs** – *Technical and Media Director (2012-13 and 2013-14 academic year)* • Work with rest of committee to help run and delegate society's daily operations as well as events such as Silicon Valley Comes to Imperial or Ideas Empowered (a seed funding competition) • Implemented the society's new online presence to appeal to people outside of Imperial
2012-2013 London, UK	**Imperial College Finance Society** – *New Financial Worlds Conference Director - IBD Stream* • Increased applications up 50% from previous year by implementing new online marketing methods • Organized the conference's first M&A competition and sourced judges from alumni and sponsors
2011-2012 London, UK	**Imperial College LGBT** (Welfare Society) – *Media Officer* • Fully rebranded society, analysed website analytics to implement new site and decreased bounce rate by 35%

Skills

Languages
• French (native) • English (native) • German (basic)

Technical Skills (ranked by experience)
• <u>Programming Languages</u>: MATLAB, Python, C, C++, Javascript, Assembly, Ruby, R, Perl and Java
• <u>Technologies</u>: Linux, Flask, MongoDB, SQL, RabbitMQ, Twitter Bootstrap, jQuery, Nginx, Adobe Creative Suite, algorithm design for use in large datasets, AWS, embedded hardware development, Google Analytics, Facebook Ads

Interests

Travel	• Organized and budgeted trips to the Shanghai World Expo as well as a Romanian Orphanage to volunteer
Technology	• Started programming at the age of 13 by making games in Ruby and other small programs • Designed websites for multiple Imperial student societies as well as group projects
Sports	• Compete in 5 to 10km races for Imperial Athletics in BUCS (British inter-university sport competition) • Regularly cycled London to Cambridge (90km) during summer 2013
Reading	• Enjoy books on behavioural economics such as 'Thinking, Fast and Slow' and 'Predictably Irrational'