Paul Cohen Resume

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Education

September 2015 - present **Massachusetts Institute of Technology, Mechanical Engineering (Cambridge-MIT Exchange programme)**

Fall Semester:

- **2.009** – The Product Engineering Process
- **6.01** – Introduction to EECS
- **2.092** – Introduction to Finite Element Analysis
- **English 60** – Migrations: Fictions of America (Harvard course)

Spring Semester:

- **2.70** – Fundamentals of Precision Machine Design
- **2.017** – Design of Electromechanical Robotic Systems
- **2.008** – Design and Manufacturing II
- **2.821** – Selection and Processing of Structural Materials

Fall semester G.P.A: **4.8 out of 5.0**

October 2013 - June 2015 **Emmanuel College, University of Cambridge, M. Eng. (first two years)**

Years 1 and 2 Courses:

Mechanics	Structures	Electronics
Linear Systems	Electrical	Materials
Thermodynamics	Mathematics	

Year 1 grade: **Class I** **Year 2 grade:** **Class I**

Design Projects:

- Structural project
- Conceptual Product Design
- Integrated Design Project to design, build and test an automated mobile robot vehicle

Experience

Global Maritime Consultancy Ltd. London **4th August – 26th September 2014**

I was based in the Design department, and worked with Naval Architects, Civil Engineers and Draughtspersons. Jobs I undertook while there included:

- Using Autodesk Inventor to create parametric models to be used in concept design visualisations.
- Investigating the stress analysis capabilities of Inventor compared with GeniE, by recreating a crane pedestal in each programme and applying systematic tests.
- Verifying and modifying calculation tools for vessel structure.
- Applying quality assurance controls to ensure compliance with company working procedures.

Smallpeice Trust Computing and Microelectronics course **4th August – 26th September 2014**

The course took place at Southampton University, where I spent 3 days working in a team of 5 to design, build and programme an autonomous robot to take part in a competition with other teams' robots. My responsibilities were:

- Designing the robot with the rest of the team.
- Designating jobs, and creating the design out of plywood, Meccano and aluminium.
- Calibrating the motors and assisting with writing the computer program in Python.
- Presenting our finished robot to other groups, explaining the processes that led to our final design.

Union Cycle Works: **September 2011 – August 2012**

I was a volunteer mechanic at a cooperative bicycle workshop in Deptford, which ran every Saturday. The workshop raises money to help train disadvantaged people as mechanics, giving them personal, practical and social skills. I was involved in renovating parts and assembling them into full bicycles, to be sold as bespoke builds to raise money for the co-op.

Brompton Bicycles Ltd: **5th-16th July 2010**

Brompton Bicycles manufacture distinctive folding bicycles. I worked in marketing, sales, human resources, design and the workshop. I was responsible for:

- Archiving company adverts, both hard copies and scanned copies.
- Designing and producing certificates for a company workshop.
- A variety of repairs on bicycles in the workshop.

Extra-Curricular

I am part of the Ecohouse initiative student society, which designs and constructs cheap temporary housing in South America.
I am studying French alongside my degree, in a course that focuses on teaching technical vocabulary.
I analysed the energy and water usage of my accommodation at Cambridge for the Environmental Consulting Society, and suggested improvements that could be made.

Skills and Achievements

Languages	3D Modelling	Awards	Competencies	Other Achievements
French	Solidworks	Ash Senior Scholarship	Project management	Grade 7 piano
C++	Creo	Wallace prize	Mathematical analysis of designs	Grade 5 music theory
Python	AutoCAD Inventor	Rowley Mainhood prize	3D Modelling	
Matlab	GeniE	College prize (Emmanuel)		
Excel	ADINA			

References

Available upon request