Paul Cohen – Resume

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Objective

Hard-working and highly motivated final-year Masters student, with key strengths in CAD modelling, structural analysis and project management. Intend to pursue a career in the areas of product, mechanical, and machine design.

Education

October 2013 – June 2017 Emmanuel College, University of Cambridge, Mechanical Engineering M.Eng.

Years 1 and 2 Courses: Design Projects:

MechanicsStructuresElectronics➤ Structural project➤ Safety Product DesignLinear SystemsE.M.Materials➤ Integrated Design Project to design, build and test an autonomous mobile robot vehicle

Masters Project: Developing 3D bioprinting system for organ-on-chip applications

Year 1 Grade: Class I Year 2 Grade Class I

September 2015 – May 2016 Massachusetts Institute of Technology, Mechanical Engineering (Cambridge-MIT Exchange)

Fall Semester: Spring semester:

2.009 – The Product Engineering Process **2.70** – Precision Product Design

6.01 – Introduction to EECS
2.017 – Design of Electromechanical Robotic Systems
2.092 – Introduction to Finite Element Analysis
2.008 – Design and Manufacturing II

English 60 – Migrations: Fictions of America 2.821 – Selection and Processing of Structural Materials

(Harvard course)

G.P.A: 4.9 out of 5.0

Experience

Intern, Frazer-Nash (Midhurst)

12 weeks 4th July - 23rd September 2016

Frazer-Nash is a precision engineering and design company that specialises in the food industry. Worked in both the drawing office and on the factory floor. Jobs included:

- Developing the concept design for a novel hollow 3D printed horseshoe. Modelling in Autodesk Inventor and Magics; setting up and running builds on Renishaw AM250 SLM machine; working closely with farriers to inform design.
- > Turning parts on a manual lathe from engineering drawings. Included various materials (stainless and alloy steels, aluminium bronze, aluminium), to tolerances as low as 0.013mm. Parts passed inspection and were deployed.
- > Detailing engineering drawings of parts and assemblies, to be machined in house.
- Writing case studies on metal additive manufacturing capabilities; involved support structure experimentation.

System Integrator, '2.009 – The Product Design Process'

Fall semester 2015

Led development of innovative climbing device, as part of team of 22 students.

- > Chaired team meetings; organised subteams; designed and prototyped concepts; managed \$6500 budget.
 - Fielded technical questions from audience of 1100. Voted 2nd out of 8 teams by audience.
 - Obtained provisional patent on technology.

Intern, Global Maritime Consultancy Ltd. London

8 weeks 4th August – 26th September 2014

A marine, offshore and engineering consultancy. Based in the Design department, working with Naval Architects, Civil Engineers and Draughtspersons. Projects undertook 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 design.
- > Applying quality assurance controls to ensure compliance with American Bureau of Shipping classifications.

Volunteer, 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.

Work Experience Student, 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 designing certificates for company training, as well as bicycle repairs in the workshop.

Skills and

Awards

Languages	3D Modellin	g	Competencies	Awards	Other Achievements
French (A2/B1)	Solidworks		Mechanical Design	Ash Senior Scholarship	Grade 7 piano
C++	Autodesk Inventor MasterCAM		Mathematical Analysis	Wallace prize	Grade 5 music theory
Python			Project management	Rowley Mainhood prize	
Matlab	GeniE	Creo	3D Modelling	College prize (Emmanuel)	
Excel VBA	ADINA	Magics	Mill & Lathe machining	Frank Marriott Scholarship	

<u>Interests</u>

I am a keen cyclist, rock climber and bike polo player. I enjoy listening to jazz, tinkering with bicycles, reading, spending time in museums, and exploring new cities.

References

Available upon request