Paul Cohen | Mechanical Design Engineer

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Hard-working and highly motivated mechanical design engineer, with key strengths in CAD modelling, structural analysis and project management. Pursuing a career in the areas of product and machine design.

Employment_

Alloy Product Development

San Francisco CA, USA

Nov 2017 - Nov 2018

Mechanical Engineer

Alloy Product Development is a mechanical design consultancy based in San Francisco, California. They specialise in innovative mechanism design and tightly-packaged consumer electronics, working at all stages of the product development process. Responsibilities and activities included:

- o Ownership of a complex mechanical subsystem for 9 months, designed to withstand high environmental stresses. Liaising with vendors in China, managing quality control and tooling modifications.
- o Prototyping new designs and test rigs in metal, plastics, and wood using hand-tools, CNC machines and additive manufacturing processes.
- Working with a range of clients, from mature startups to Fortune 50 companies.
- o Performing tolerance analyses to support EVT-style build of a tightly-packaged electronics product prototype.
- o Designing and building custom test rigs to validate client engineering requirements; writing scripts in Python for automatic data analysis and presentation.
- o Extensive use of top-down 'master modelling' practices in Creo 3.0 CAD software and use of ANSYS FEA software.

Frazer-Nash Midhurst Petersfield, UK

Mechanical Engineering Intern

Jul-Sep 2016

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

- o 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.
- o Detailing engineering drawings of parts and assemblies, to be machined in house.

Global Maritime Consultancy Ltd.

London, UK

Engineering Intern

Aug-Sep 2014

A marine, offshore and engineering consultancy. Based in the Design department, I worked to develop design tools to streamline their quotation process. This included creating parametric CAD models for quick visualisations, as well as a spreadsheet to automatically check compliance with safety standards.

Education

Emmanuel College, University of Cambridge

Cambridge, UK

M.Eng. Mechanical Engineering, **Distinction**

2013-2017

Covered a general engineering syllabus for the first two years, before specialising in mechanical design in the final year. Achieved 1st class grades in all years.

Massachussetts Institute of Technology

Cambridge MA, USA

Cambridge-MIT Exchange, GPA 4.9/5.0

2015-2016

Specialised in mechanical design and manufacturing, including precision machine design, finite element analysis, electromechanical system design, and design for manufacturing, as well as an English literature course at Harvard.

Skills

- Languages
- Pvthon o C++
- Matlab
- Excel VBA
- o French (B1)

3D Modelling

- Solidworks
- o Creo
- Autodesk Inventor
- ANSYS
- MasterCAM

Competencies

- Mechanical Design
- Project Management
- CAD modelling
- Injection Molding
- Mill & Lathe machining
- Prototyping
- Vendor management
- Client liaison
- Tolerance analysis
- QA inspection