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

Mechanical Engineer

Nov 2017 - Nov 2018

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.
- o Performing tolerance analyses to support EVT-style build of a tightly-packaged electronics product prototype.
- 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.

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

- Python
- C++Matlab
- MatlabExcel VBA
- o French (B1)

3D Modelling

- Solidworks
- Creo
- Autodesk Inventor
- O ANSYS
- MasterCAM

Competencies

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

Sabbatical year_

After working consistently since school, in November 2018 I took a break from my professional career to spend more time volunteering for causes close to my heart, and to train for the NorthCape4000.

- Samos Volunteers (Sep 2019): Samos Volunteers provides psychosocial support for asylum seekers who are trapped in
 dangerous conditions in the refugee camp on Samos. I helped them deliver their services teaching lessons in their adult
 learning centre, washing laundry to improve basic hygiene, and assisting the smooth running of the community centre.
- o NorthCape4000: The NorthCape4000 is a single-stage unsupported cycling race from Turin to North Cape, covering 4400km and 10 countries. Riding over 340km each day, I finished 6th out of 141 starters, in a time of 13d 18h 15m.
- Physics and Maths Tutor (Jan 2019 present): Tailoring lessons to each student to help them achieve their potential.