

# Maxwell J. Brunhart

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## Personal Statement

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I am a resourceful, self-motivated and dedicated mechanical engineer skilled in all phases of engineering operations. Excellent problem solving skills and able to manage and prioritize a plethora of tasks. I possess excellent academic educational qualifications along with a respected early career of managing and troubleshooting process equipment. Detail oriented with a proficiency in communication and interpersonal skills. I am able to work well both independently and as an active team member. I am currently working on the EU CaFE project where my qualifications and skillset will add value, whilst still adding to my own development and knowledge base. There are a lot of action words here, let the rest of my CV give some support to them.

## Education

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### Master in Mechanical Engineering — 2014 – 2015

University of Leeds [Graduated with Distinction, equivalent to 3.7/4 GPA]

#### Key Modules

- Professional Project- Droplet Dynamics
- Aerospace System Design
- Computational Methods- Attitude Control
- Aerospace Structures
- Biomaterials
- Aerodynamics with CFD

### Bachelor of Science in Mechanical Engineering — 2007-2011

Portland State University [CGPA - 3.3/4, equivalent to 2:2] ABET accredited

- Focused on micro fluid mechanics, material properties, dynamics, computational research and design as well as seeking out a plethora of various other subjects.

## Relevant Experience

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### Customer Engineer — 2011 - 2014

*Applied Materials - Intel account, Hillsboro, OR*

- Oversaw tools in the UV cure and gap fill production areas in the dynamic R&D department and troubleshot any issues that arose.
- Enhanced the tool set to run to the customers' requirements. This was accomplished both individually and as an integral member of a team.
- Traveled around the U.S. and China for system integration, product assembly and training.
- Directed the installation of different interfaces and chambers.
- Trained new team members in system procedures, tool specifications and safety requirements.
- Established plans and procedures for system and subsystem integration

### Motor Vehicle Crash Simulation Capstone — 2010 - 2011

*Portland State University, Portland, OR*

- Developed a propulsion system for an upper torso crash simulation sled.
- Modeled propulsion system and optimized sled accelerator for ideal torque output.
- Machined steel and aluminum components for the propulsion system, sled, and track.
- Presented the work done with engineering colleagues.

### **Mechanical Engineer — 2010 - 2011**

*Oregon Health and Science University, Portland, OR*

- Design device to test strength and dexterity for various hand motions to assess patients hand mobility after surgery.
- Fabricated and refined parts for the medical device.

### **Research Assistant for Dr. Haufen Hu — 2011**

*Portland State University, Portland, OR*

- Gathered and interpolated relevant constraints to properly model the thermodynamics of the buildings around PSU.

### **Research Assistant for Dr. Mark Weislogel — 2010**

*Portland State University, Portland, OR*

- Developed a conduit for capillary driven flow.
- Test the conduit in a low-G environment. Developed an equation to represent the flow.

### **Intern — 2010**

*Finezza Soccer, OR*

- Modeled soccer training device in SolidWorks for the patent and assembly guide.

### **Software**

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●●●●	AutoCAD	●●●●	Fluent	●●●●	Minitab
●●●●	COMSOL	●●●●	Mach 3	●●●●	MS Office
●●●●	eQUEST	●●●●	Maple	●●●●	Python
●●●●	Flashcut	●●●●	Matlab	●●●●	SolidWorks

### **Extracurricular Activities**

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**Student representative** - I represent my cohort in Advanced Mechanical Engineering in all issues and queries that come up. I am also on the taught student education committee that brings any issues from our own school to the whole university.

**CSWP (Certified SolidWorks Professional)** - This program is very useful for visualization of initial designs. With my continued use of the program I was able to obtain my certification from the company itself.

**Constructed CNC mill** – Designed and built a CNC mill from the ground up. Sourced all of the material and integrated safety systems during system construction.

**Ultra marathon runner** - Have completed a number of marathons as well as a 50 km and a 50 mile race that included two miles of vertical climb. I am currently training for a triathlon.

### **Other Hobbies**

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Rock Climbing • Bagpipes • Racquetball • Snowboarding • Brewing • Hiking • German • Archery

References available upon request

Willing to relocate