

Garrett Gustafson

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EDUCATION

Bachelor of Science in Mechanical Engineering

University of Calgary, Calgary, Alberta

Completed May 2015

AREAS OF EXPERTISE

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|---------------------|---------------------|------------------------|
| • SolidWorks CAD | • Electrical Design | • Technical Evaluation |
| • Microsoft Office | • Data Acquisition | • Problem Solving |
| • Technical Writing | • Manufacturing | • Troubleshooting |
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EXPERIENCE

Design and Test Engineer

Atlantis Research Labs

Nov 2016- Present

Medicine Hat, Alberta

- Responsible for design and testing of innovative waste hydrocarbon incineration system.
- Involved with all phases of project, from initial research to field operation implementation.
- Work closely with fabrication and field teams to ensure product meets client requirements.

Research Student

University of Calgary,

May 2012 - May 2016

Calgary, Alberta

- Designed and manufactured:
 - Hybrid rocket motor combustion chamber for imaging experiments. Including valve timing state machine, and valve electrical system.
 - LED system to be used for capturing high-speed images. PCB layout, and triggering system.
 - Co-authored paper for Journal of Visualizations on high-speed light system.
 - Work with a budget. Developed in house LED system, reducing costs by 75%.
 - Presented regularly to supervisors and prospective sponsors to convey current project status and future prospects. One presentation resulted in a significant grant to allow for the project to continue.
 - Trained coworkers to use various tools and software systems.
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VOLUNTEER WORK

Math Tutor

YMCA

Feb 2016 - Nov 2016

- Tutor high school math for underprivileged children

Service Mission

Phoenix, Arizona

Apr 2008 – Apr 2010

- Designated as an official full time representative of an organization. Worked unsupervised, and followed strict conduct and appearance guidelines.
 - Built working relationships with individuals through regular community service, teaching, and presenting in one-on-one and group situations.
 - Trained fellow volunteers on teaching skills, interpersonal relationships, safety, and organizational strategies.
 - Spoke publicly to audiences of 500+ on a monthly basis.
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Hobbies

Amateur experimental rocketry

- Flew 20lb rocket to 9200 feet at Intercollegiate Rocket Engineering Competition (IREC)
- Coach University of Calgary rocketry team
- Former Vice President of Calgary Rocketry Association