

Jonathan C. Gruff

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Education

B.S. in Mechanical Engineering | *Brigham Young University-Idaho* | Rexburg, ID

Apr 2019

- 3.83/4.0 GPA

American Society of Mechanical Engineers (ASME)

Aug 2015-Present

- Chairman (2 years): BYU-Idaho Chapter
- Wrote proposals for funding and was awarded a \$1500 grant to promote engineering
- Oversaw initiation of students section and growth to 80+ members
- Directed society in Student Section Competition, winning 1st place and most improved section

Society of Automotive Engineers (SAE)

Aug 2015-Present

- Executive Committee Secretary, Treasurer, Website Specialist and Society Advisor
- Mini-Baja Team Participant – Rules coordinator, parts fabricator, business team

Professional Experience

Student Intern | *General Motors E-Flex and Fuel Cell Program Management* | Detroit, MI

May 2018-Aug 2018

Designed and presented solution for major hydrogen storage issue (GM approved)

- Guided the Plug in Electric Vehicle Team through the initiation of a crisis management program
- Investigated and diagnosed issues with hydrogen storage systems for proposed fuel cell vehicle
- Monitored and summarized customer feedback for GM's Fuel Cell Demonstration Fleet
- Received training on fuel cell, plug in and electric vehicle testing and instrumentation techniques

Student Intern | *General Motors Manufacturing Department* | Detroit, MI

Apr 2017-Aug 2017

- Compiled bid packages totaling over \$308 million for conveyor renovations at Springhill Assembly Plant
- Designed new conveyor system to be used throughout GM
- Designed modifications to seat system Lansing Delta Township Assembly Plant using AutoCAD
- Supervised construction crews and coordinated several conveyor renovation projects
- Completed 90+ hours of voluntary training and online classes to improve skills

Lead Mentor | *U.S.F.I.R.S.T. Robotics* | Rexburg, ID

Sep 2015-Aug 2017

- Established four F.I.R.S.T. robotics teams for local high schools in Idaho
- Mentored 50+ students and staff to successfully resolve problems and concerns that arose
- Reported progress to supervisor, produced reports and strategies to minimize cost
- Taught 3D parametric modeling (Unigraphics, AutoCAD) to students and staff
- Collaborated with DaimlerChrysler engineers to design, build and test robots

Personal Experience

Full-Time Volunteer | *The Church of Jesus Christ of Latter-day Saints* | Samara, Russia

Oct 2012-Nov 2014

- Supervised humanitarian activities for large Russian cities and prepared strategies to improve volunteers' teaching skills
- Taught life skills and English to diverse groups of Russians and other nationalities

Captain | *Electrathon Racing Team* | Lake Orion, MI

Sep 2008-Jul 2011

- Designed and manufactured four small electric vehicles
- Won two national titles and a world record in a professional distance competitions (unbeaten for 6 years)
- Constructed and developed vehicles with engineer teams from Venture Industries and Excide Batteries
- Researched vehicle energy conservation solutions

Awards & Honors

- Winner | ASME District D Old Guard Oral Presentation Competition | March 2018
- Winner | ASME Outstanding Student Award District D | December 2018
- Participant | ASME National Old Guard Oral Presentation Competition | November 2018
- Participant | ASME District D Old Guard Oral Poster Competition | March 2019
- ASME Idaho Section Scholarship Recipient | BYU-Idaho Academic Scholarship | Nelson Scholarship
- BYU-Idaho M.E. Department Scholarship Recipient | National Deans List Award Recipient