

Justin Des Yarrington

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EDUCATION

Bachelor of Science – Mechanical Engineering

3.76 GPA

Rexburg, Idaho

Brigham Young University – Idaho

Apr. 2018

- Attained a strong understanding of OpenFOAM computation fluid dynamics, LabVIEW and VBA programming for Microsoft Excel
- Established extensive knowledge of 3D modeling – SolidWorks Associate in mechanical design
- Acquired skills in operating an engineering team, verifying goals are set and tasks are assigned

PROJECTS

CFD – Conjugate Heat Transfer in Heated Pipe Flow

150+ Hours

Rexburg, Idaho

Brigham Young University – Idaho

Sep. 2017 – Dec. 2017

- Optimized grid size and shape using Creative Fields Mesh and a second-order solver
- Developed an effective system of testing relationships between heat transfer and material type
- Decreased running time by creating an executable files that processed and cleaned up case studies

Stirling Engine Design, Construction and Analysis

72+ Hours

Rexburg, Idaho

Brigham Young University – Idaho

Apr. 2017 – Jul. 2017

- Synthesized an accurate 5-bar mechanism and predicted its motion
- Enhanced team cooperation by developing an effective process of design review
- Reduced manufacturing time by designing and drafting an operative CAD model using SolidWorks

Five-Function Robot

84+ Hours

Rexburg, Idaho

American Society of Mechanical Engineers

Jan. 2017 – Apr. 2017

- Demonstrated effective interface management, synchronizing with other leaders on design changes
- Directed the innovation of the throwing and hitting arms, certifying requirements were fulfilled
- Improved manufacturing experience by operating CNC lathe, mill and plasma cutter

WORK EXPERIENCE

Engineering Support - Internship

Swagelok Salt Lake

Salt Lake City, Utah

Aug. 2016 – Dec. 2016

- Developed a more coherent system of design review with the manufacturing team, thereby minimizing error
- Designed and drafted all valve, fitting and tubing assemblies in the mountain west area
- Reached consistent client satisfaction by working closely with customers

Mathematics Tutor

Brigham Young University – Idaho

Rexburg, Idaho

Jan. 2016 – Jul. 2016 & Jan. 2017 – Dec. 2017

- Enlarged student understanding of concepts through examples and demonstrations
- Earned exceptional recommendations and reviews from students and peers
- Displayed excellent skills in statistical analysis and the study of three-dimensional systems

Full-time Volunteer Representative

The Church of Jesus Christ of Latter-Day Saints

Wellington, New Zealand

Aug. 2013 – Aug. 2015

- Achieved increased efficiency and improved understanding by organizing and training ten other volunteers
- Expanded leadership traits - conducted interviews with other volunteers to evaluate productivity