

Andrew Gothro

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Education

Current Junior at Gonzaga University

Graduation: May 2021

BS Major in Mechanical Engineering, Minor in Physics GPA: 3.2

Notable courses completed: Advanced Engineering Mathematics, Statics, Dynamics, and Materials Engineering

Henry M Jackson High School, Mill Creek, Washington GPA: 3.68

Graduated 6/17/17

Work History

Collins Aerospace Materials and Flammability Intern

May-August 2019

- Developed cure process for new composite layup process.
- Produced engineering drawings and models for multiple projects using both Solidworks and NX.
- Developed testing procedures for material qualification.
- Assisted with detailed failure mode effects analysis for interior monuments for OEM customers.

Gonzaga Machine Shop lead

17-18, 18-19 Academic years

- Assist with manufacturing for various clubs and senior projects.
- Teach students skills to create parts on their own.

September 2019-present

Dunn Lumber Yard Hand

June-August

2018

- Assisted customers in finding and loading products they needed.
- Worked with sales associates to ensure that customers' expectations were fulfilled.

Boeing High School Fabrication Summer Internship

June-August

2016

- Placed in the Innovation Center section of the Electrical Systems Resources Center (ESRC).
- Increased efficiency through prototyping of equipment for workers in an industrial setting.

Skills

Solidworks

6 years' experience

- Designed parts, assemblies, and drawings for design planning and CNC machining.
- Experienced in bottom-up and top-down modeling as well as configurable parts.
- Certified Solidworks Associate

Microsoft Excel, Google Sheets

5 years' experience

- Created robotics team scouting algorithm.
- Used VBA programming for data input automation, sorting, filtering, and results output.

3D Printing

5 years' experience

- Experience designing 3d printed parts for robotics competition use.
- Experienced in mechanical design specifically for optimizing parts for 3d printing

Siemens NX and Teamcenter PLM Software

3 month's experience

- Created and managed NX parts, drawings, and associated documents through the life multiple projects

Activities

Gonzaga SAE Baja Club

2017-present

- Design lead for steering, suspension, and braking systems.
- Optimized component geometry for off-road racing characteristics.
- Manufactured many components using manual and CNC metalworking tools and 3d printing.

Gonzaga ASME Rocketry club

2017-present

- Coordinated sub-system integration as integration team lead.
- Organized component layout and configuration.
- Prototyped both fiberglass and carbon fiber composite parts' layup processes.

Boy Scouts

2007-

2017

- Eagle Scout, June 1st, 2017.