**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. *September 2019-present*
* Teach students skills to create parts on their own.

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.