Jackson Wills

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Mobile: 801-243-8896

**EDUCATION**

**Gonzaga University** Graduate May 2020

*Bachelor of Science, Mechanical Engineering*

* GPA 3.78
* Will take the FE Exam when testing centers reopen

**University of Minnesota** Beginning August 2020

*PhD Student, Mechanical Engineering*

**SKILLS**

System Modeling Julia Language MATLAB

SolidWorks LabVIEW LaTeX

Machine Shop Desire and Aptitude for Learning Personal and Communication Skills

**ACADEMIC PROJECTS**

**Furuta Pendulum** November 2019 – May 2020

* Worked in Dr. Fitzgerald ‘s lab at Gonzaga University to better understand underactuated control by analyzing a rotary inverted pendulum.

**Solid Adsorption Refrigeration** August 2019 – March 2020

* Designed and prototyped a solar radiation powered refrigeration system for use in health clinics in developing countries. Designed for cost under $2000.

**Biology Research** April 2017– June 2017

* Conducted research on insect biodiversity in Terra-Firma and Varzea ecosystems in the Amazon Rainforest

**3D Printed SolidWorks Design** September 2017–December 2017

* Designed and printed a 5-inch Pixar Animation character. Reduced infill percentage to 18%

**WORK EXPERIENCE**

**FireFly Automatix** May 2019 – August 2019

*Mechanical Engineering Intern* | Salt Lake City, Utah

* Worked to optimize manufacturing efficiency and modeled parts in SolidWorks.
* Operated machinery in the machine shop, gained understanding of the production process.

**Gonzaga University** August 2018 – December 2019

*Manufacturing Processes Lab TA and Physics Lab TA* | Spokane, Washington

* Graded lab reports and answered any conceptual and procedural questions that arise during lab
* Directed students in hands-on labs

**NorthStar Builder’s General Contractors** July 2018 – August 2018

*General laborer* | Salt Lake City, Utah

* Assisted specialists within various construction jobs including, sprinkler system installation and electrical wiring

**RELEVANT COURSEWORK**

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| --- | --- | --- |
| System Dynamics and Controls | Circuits | Computational Dynamics |
| Mechanical Design | Vibration Engineering | Biomechanical Engineering |

**LEADERSHIP AND SERVICE**

**Science In Action!** September 2018 – December 2019

* Developed and implemented a science-based curriculum in low income elementary schools

**Ignite Basketball Association** October 2018 – December 2019

* Instilled team work skills to low income youth in a local basketball league

**Meals on Wheels** February 2019 – May 2019

* Preserved the dignity and independence of disabled or home bound seniors in Spokane by providing them with nutritious meals

**S.M.I.L.E.** January 2018 – May 2018

* Developed an ability to think on my feet while mentoring youth at low income schools in an afterschool program