

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 Automatrix 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

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