

Graham Burnside, M.E. Undergraduate

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Summary of Qualifications

- Team worker with hands-on work experience with a strong understanding of engineering fundamentals.
- Organized, diligent, and detail oriented shown through academic achievements.
- Adaptable and interpersonal with strong communication skills, reflected in work experience.

Education

Mechanical Engineering (B.S) *exp. May 2022*

Northern Arizona University (Flagstaff, AZ)

- Cumulative GPA: **3.5**
- Dean's list Spring 2020 - Fall 2021

Work Experience

Commercial Fisherman – Bristol Bay, Alaska

June - Aug, 2017 – 2020

Worked as a deckhand on a Bristol Bay fishing vessel in the worlds largest sockeye salmon fishery.

- Ran hydraulic systems, assisted captain with boat repairs, repaired and rotated nets, all which increased fishing uptime and throughput.
- Accomplished duties in rough seas, chaotic and dangerous environments where mistakes can cost thousands of dollars.
- Directed and worked with two other deckhands for 16 – 20 hours a day for two months, solved issues through communication.

Collegiate Wind Competition (CWC) Capstone

Aug 2021 - May 2021

Lead Mechanical Engineer Designer

- Helped design and build a small scale prototype wind turbine to be tested at CLEANPOWER 2022 Conference & Exhibition in San Antonio, Texas.
- Led the design of the foundation system, worked closely with team members to iterate and test different designs.
- Used 3D printing knowledge to manufacture parts for the entire turbine, including pitching, yaw, and braking system.

Additional Skills

Software Experience

- **Solidworks** experience throughout all of college career creating various complex parts for school projects.
- **Onshape** experience modeling parts for the CWC turbine with real time collaboration.
- **Matlab** experience writing codes for numerous technical classes, including projects in fluid mechanics II, aerodynamics, heat transfer, etc.
- **Python** introductory experience writing codes for school and personal projects.
- **Excel** experience with data manipulation, analysis and interpretation through numerous labs and classes.
- **Ansys** experience modeling structural loads to determine predicted stress, strain, and deformation as well as heat transfer problems.
- **MathCad** experience in creating and formatting complicated equations.
- **FL Studio** experience in music production and sound design.
- **Ultimaker Cura** experience in fine tuning printer settings to create optimal parts for prototyping.

Lab Experience

- **Experimental Methods of the Thermal Sciences** experience with designing experiments, collecting data, and interpreting and calculating results through matlab, including data uncertainty analysis.
- **Mechanics of Materials Lab** experience analyzing material properties through experiments
- **Fluid Mechanics Lab** experience working with a wind tunnel, measuring lift and drag of airfoils.