

TREVOR D. SENIOR

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EDUCATION

B.S. in Mechanical Engineering

Northern Arizona University, Flagstaff, AZ

Graduation: May 2024

Cumulative GPA: 3.42

SKILLS

- CAD modeling, 3D prototyping
- Excel, MATLAB
- Materials understanding and analysis
- Reverse engineering, Critical thinking

SUMMARY OF QUALIFICATIONS

- Proficient in SolidWorks and Microsoft Office Suite
- 4+ years of work experience in environments where teamwork was crucial
- Attention to detail and problem-solving abilities
- Adaptive to new software and methods optimizing efficiency in the mechanical engineering process

RELEVANT PROJECTS

Senior Design Capstone

Flagstaff, AZ

Fall 2023 - Present

- Hydropower Collegiate Competition 2024
- Hydropower site selection from subset of non-powered dams that have potential to generate electricity
- In depth conceptual facility design of the selected hydropower site
- Structural calculations, FEA modeling, fluids calculations, CAD modeling of components and structures

Heat Transfer Computer Project

Fall 2023

- Utilized MATLAB to create a code that modeled the provided 2D heat map figure
- Use of 3D plot features and graph generation based off of heat map boundary points
- Summed up results and conclusions in a comprehensive engineering report

ME Design Project

Spring 2023

- Work through the engineering design process from start to finish to create an avalanche backpack
- Project lead; manage work distribution and the project's timeline using MS Teams
- Designed on SolidWorks several key components for the device and visualized the use using virtual reality

EXPERIENCE

The Annex Cocktail Lounge

Flagstaff, AZ

Bar Back

June - August 2023

- Maintained a clean and stocked bar while assisting guests with orders in a high pressure environment
- Gained excellent interpersonal skills, communication and collaboration with team members
- Demonstrated effective time management through task prioritization

Coldstone Creamery

Westminster, CO

Shift Lead

May 2019 - August 2020

- Led a team in a fast-paced environment to ensure customer wait time was minimal
- Managed the cash register drawer count at the end of the night
- Took orders, served customers and made the ice cream

ACTIVITIES/AWARDS

- NAU Energy Club, CEIAS Deans List 2023
- Photography, hiking, skiing, distance running