

Trey Bushling
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Education:

Northern Arizona University (NAU), Flagstaff, AZ - Bachelor of Science in Mechanical Engineering - (In Progress)

- 300 level courses : Thermodynamics, Fluid Mechanics, Engineering Design, CAD System
- Coconino Community College, Flagstaff, AZ - Associate of Science, Graduated: 2023

Technical Skills:

- CAD, Laser Cutting, 3D Modeling, Mechanical Design, Solar Tracking Systems, SolidWorks, AutoCAD, MATLAB, Arduino IDE, CNC Machining, Laser Cutting, Prototyping, Project management, Team collaboration, Creative engineering solutions, Risk Assessment

Engineering Projects:

Arduino-Based Solar Tracker

- Applied principles of electronics, programming, and mechanical design to automate solar tracking and improve energy capture.

Drawbridge Design and Build

- Applied principles of mechanical design and structural analysis to ensure stability and functionality.

Thermoelectric Generator for Hybrid Vehicle

- Currently designing a thermoelectric generator aimed at improving energy efficiency in hybrid vehicles.
- Leveraging thermodynamics and mechanical engineering principles to develop a cost-effective solution.

Experience:

Forest Highlands Country Club, Flagstaff, AZ - Bartender – May 2023 to Present

- Provide exceptional customer service in a high-end environment.
- Develop multitasking and time-management skills by managing multiple customers and tasks simultaneously.
- Utilize problem-solving skills to handle customer requests and issues effectively.

Kern River Brewery Company, Kernville, CA - Server – May to August 2022 , May to August 2023

- Delivered high-quality service to guests in a busy, fast-paced brewery environment.
- Managed guest experiences, took orders, delivered food and drinks, and resolved customer issues.
- Developed strong communication and teamwork skills while maintaining efficiency in a high-volume setting.

Pizza Factory, Lake Isabella, CA - Pizza Maker – October 2020 to August 2021

- Demonstrated leadership in a team setting, efficiently handling orders, stock management, and customer service.

Sierra South, Kernville, CA - River Guide – May to August (2018-2022)

- Led and instructed customers on safe rafting practices.
- Gained strong risk assessment and decision-making skills, valuable in engineering project management.

References

- Megan Hall Kern River Brewing company Manager - 760-549-3550
- Pizza Factory - Lisa/ Donny Deaver (Owners) 760 - 417 -1655.
- Sierra South - Tom Moore(Owner) 760-417-1951 / Evan Moore(Manager) 760-417-0305
- Stacy Sander 760-417-1581 (Teacher)