

Jenna Sterry

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Education

Northern Arizona University (NAU) | Flagstaff AZ

Master Mechanical Engineering

Expected Graduation: Dec 2027

Northern Arizona University (NAU) | Flagstaff AZ

B.S. Mechanical Engineering

Distinctions: LumberJack Scholarship, Deans List, Top 10%

Expected Graduation: Dec 2026

GPA: 4.0

Experience

Ambassador of Sanghi College of Engineering | Northern Arizona University | Flagstaff AZ

Aug 2025-now

- Responsible for recruiting, retention, outreach, and student success of future engineering students
- Dedicate time to engineering events hosted by Sanghi College of Engineering
- Serve on student panels and craft informative lectures on renewable energies
- Answer prospective students questions at depth and broad understandings

Peer Math Assistant | Northern Arizona University | Flagstaff AZ

Jan 2024-Dec 2025

- Managed and trained 4 people in different teaching methods and hosting review sessions
- Dedicated 5 hours a week to build structured lesson plans for review sessions as well as extra help around exam times.
- Utilized Calculus II and III to aid students in their understanding of calculus and problem solving methods
- Built group work and promoted active learning amongst 10 students

Upper Bound Math and Science Instructor | Northern Arizona University | Flagstaff AZ

June 2025

- Dedicated 20 hours a week to creating lesson plans on civil engineering, renewable energies, and ingenuity for 45 students
- Created projects with requirements and deadlines for groups of 5 to achieve
- Encouraged expression of diversity through their projects and goals
- Adapted on the spot to new changes in schedule or curriculum

Technical Projects

Gear Box Speed Reducer – Team Lead

A team of 4 people were tasked with a month-long project to create a speed reducer with an input speed of 1500rpm and an output speed of 300 rpm. The size of the box and the bearing diameters were given. The team had to compute the gear sizes, tangential and radial forces, and the shaft sizes.

GORE Sustainability, Compost - Researcher and Builder

A team of 4 people aimed to resolve the odors of compost while making the project attainable for lower income and apartment-style living. The compost bottle aimed to have children learn about compost and spark interest in sustainable systems. This project reused a 2-liter bottle and layered soil and mulch from outside. There were 4 tests: control, charcoal puck, silica beads, and orange peels. Orange peels won our criteria for reducing odors and was also the most sustainable option.

Sled – Builder Engineer, Creative Lead

A team of 13 people had to build a sled within 3 months. The budget was \$400 and extra expenses had to be fundraised. The sled had to hold 350 pounds, have two electrical components, seat 2 people, and slide. Wood palettes were reconstructed to build a one person standing, one person sitting structure. The person standing would turn the sled using a two height system to tilt the sled.

Skills

Technical Skills: Solid Works, Excel, Matlab, Gcode, Lathe, Mill, CNC

Awards/Certificates: Certified in Mill and Lathe, 1st place in GORE Sustainability Project, top 10% of Juniors in Mechanical Engineering

Language: English (fluent), American Sign Language(limited proficiency), German(limited working proficiency)

Clubs and Organizations: President of Energy Club,. Theta Tau: Corresponding Secretary, Marshal

Hobbies: Plumbing, Woodwork, Tutoring, Swing/Line Dancing, Boulderling, Baking, Cello