

# Caleb Young

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• Portfolio: [https://cyoung604.github.io/cyoung\\_portfolio/](https://cyoung604.github.io/cyoung_portfolio/)

## EDUCATION

### Bachelor of Science, Mechanical Engineering (BSME)

Montana State University, Bozeman, MT

August 2022 - December 2026

3.23 GPA

## Awards and Grants

Undergraduate Scholars Program Grant - Funded Experimental Fluids Research

Mark Cook Award for Undergraduate Research (2025-2026)

## TECHNICAL SKILLS

**Data Analysis:** PIV (Particle Image Velocimetry), LaVision DaVis, LabVIEW

**CAD and Prototyping:** SOLIDWORKS, Fusion 360, 3D Printing(MakerBot Sketch)

**Programming/Software:** Python, MATLAB

**Engineering/Hands-on:** Construction tools, CNC Machining

## PROFESSIONAL EXPERIENCE

### Undergraduate Researcher - Experimental Fluids Lab, Montana State University - Bozeman, MT June 2025 - May 2026

- Ran 80+ Particle Image Velocimetry (PIV) experiments, including motion analysis and calibration to quantify flow structure and compare blade configurations.
- Developed MATLAB analysis to post-process PIV fields, including data import, filtering, numerical integration, and circulation plotting to ensure consistency across all collected data.
- Designed and 3D-printed test fixtures to support force measurements and sensor calibration.
- Presented monthly research updates and collaborated weekly with graduate researchers and faculty to refine test procedures, data analysis, and results.

### Ranch Hand - Wayne Ranch, Bozeman, MT

May 2024 - September 2024

- Supported framing and structural assembly, verified dimensions and fit prior to installation to ensure build accuracy.
- Performed measurement and layout checks for roofing and framing components using tape measures and levels.

### Landscape Construction Laborer - Greenhaven Construction, Ridgefield, WA

May 2023 - August 2023

- Assisted with landscape construction planning and site preparation.
- Utilized tools and machinery such as skid steers, mini excavators, and power hand tools.

### Metal Grinder/Machinist - Samson Sports, Camas, WA

July 2021 - September 2021

- Supported Haas 5-axis CNC machining operations, assisting with setup, part handling, and post-machining finishing to specification.

## Volunteer Work

### Student Leader, Oaks International Campus Ministry

October 2023 - Present

- Organized and coordinated weekly studies; led group discussion and weekly presentations.
- Managed students with weekly meeting logistics.
- Developed leadership and public speaking skills with weekly group facilitation.

### Work Crew, YoungLife

June 2022 - July 2022

- Developed teamworking skills while working in dining hall/kitchen operations at camp
- Assisted in managing food prep and shift scheduling