

# Caleb Young

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## EDUCATION

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

Montana State University, Bozeman, MT

August 2022 - December 2026

3.12 GPA

### Awards and Grants

Undergraduate Scholars Program(USP) Grant - *Funded Experimental Fluids Research*

The Mark Cook Award for Undergraduate Research (2025-2026)

### High School Diploma

Camas High School, Camas, WA

September 2018 - May 2022

3.73 GPA

## TECHNICAL SKILLS

**Data Analysis:** PIV testing, Fluid visualization(DaVis), MATLAB, LabVIEW

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

**Programming/Software:** Python

**Engineering/Hands-on:** Construction, CNC Machining, Project Management

**Language:** English(native), Spanish(Classroom Level)

## PROFESSIONAL EXPERIENCE

### Undergraduate Scholars Program Researcher - Experimental Fluids Lab, MSU - Bozeman, MT

September 2025 - May 2026

- Conduct PIV(Particle Image Velocimetry) testing on rowing blades to study blade efficiency and fluid flow.
- Perform motion analysis, blade calibration, and laser illumination of submerged particles.
- Design and 3D Print test fixtures to gather force measurements and calibrate sensors.
- Perform MATLAB analysis to produce vorticity and circulation data plots
- Deliver monthly progress presentations and attend weekly meetings with graduate students and the professor.

### Undergraduate Researcher - Experimental Fluids Lab, Montana State University - Bozeman, MT

June 2025 - August 2025

- Conducted PIV testing of RANDALLfoil rowing blade attachments.
- Produced MATLAB analysis of vorticity and circulation supporting ongoing fluid dynamics research.
- Coordinated with team members on methods to promote effective results.

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

May 2024 - September 2024

- Collaborated during framing and assembly of building operations
- Measured and confirmed framing and roofing measurements before assembly

### 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

- Assisted with 5 axis Haas CNC machining operations.
- Ground and finished metal parts to specifications.
- Promoted shop efficiency with team collaboration and communication.

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