

Alex Murchison

Mechanical Engineering Student | Fort Collins, Colorado
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PROFILE

Mechanical Engineering student at Colorado State University with hands-on experience in design, manufacturing, construction, and technical problem-solving. Experienced with SolidWorks, MATLAB, engineering drawings, fabrication processes, and shop environments. Interested in mechanical design, product development, manufacturing, and engineering internship opportunities that combine technical problem-solving with real-world application.

EDUCATION

Colorado State University – Bachelor of Science in Mechanical Engineering

Expected Graduation: May 2028

Colorado Mountain College – Mechanical Certification

TECHNICAL SKILLS

CAD & Design: SolidWorks, assemblies, dimensioned engineering drawings, part modeling

Programming & Analysis: MATLAB, engineering calculations, data analysis, visualization

Manufacturing & Shop Skills: Hand and power tools, fabrication exposure, troubleshooting, equipment maintenance

Engineering Strengths: Technical problem-solving, teamwork, communication, adaptability, attention to detail

ENGINEERING PROJECTS

Mechanical Design Projects – Colorado State University

- Designed and modeled components and assemblies using SolidWorks
- Created engineering drawings and applied design constraints
- Applied iterative design methods and analytical problem-solving throughout project development

Manufacturing & Machining Coursework

- Completed projects involving manufacturing processes, machining concepts, and engineering documentation
- Developed understanding of tolerancing, fabrication methods, and production-focused design

MATLAB Engineering Coursework

- Developed MATLAB scripts for engineering calculations and technical analysis
- Analyzed engineering datasets and created visualizations for problem-solving applications

PROFESSIONAL EXPERIENCE

Tally Ho Construction – Construction Worker | June 2022 – August 2023

- Operated tools and equipment in fast-paced project environments
- Assisted with setup, material handling, and maintaining safe job-site operations
- Worked collaboratively to complete projects efficiently and accurately

Recovery Resources Colorado – Trainer / Ranch Hand | March 2023 – August 2024

- Performed inspections, maintenance, and troubleshooting on facilities and equipment
- Demonstrated reliability, adaptability, and attention to detail in demanding environments

LEADERSHIP & ACTIVITIES

Honor Roll (4 Years) | Academic All-Star – Wrestling & Football | FFA Sentinel | Garfield County 4-H Senator | District 9 4-H Treasurer, Secretary, and Vice President