

Zander Snow

(970) 939-3000 | zandersnow@gmail.com

EDUCATION

Colorado School of Mines, Golden, CO | BS, Mechanical Engineering

GPA: 3.95 | August 2023 – Expected May 2027

Aims Community College, Greeley, CO | AAS, Computer Aided Drafting

GPA: 4.00 | June 2021 – May 2023 | (Completed during High School)

SKILLS & CERTIFICATIONS

- **Design/CAD:** SolidWorks, AutoCAD, Fusion 360, Inventor, Revit, 3D Modelling.
- **Computing:** Python, C++, MATLAB, FEA, CFD, LabVIEW, Arduino, Office 365.
- **Manufacturing:** Mill & Lathe, 3D Printing (FDM), Technical Drawings (GD&T), Six Sigma, MBOM.
- **Certifications:** FAA Part 107 Remote Pilot, Solidworks CSWA - Mechanical Design.

ENGINEERING PROJECTS

PID-Controlled Thermal System (Easy Bake Oven Project) | August 2025 – December 2025

- Built a closed-loop PID temperature control system using a thermocouple, heating element, and LabVIEW interface.
- Tuned controller parameters to achieve stable and accurate thermal regulation.

Precision Machined Derby Car (Team-Based Design Project) | August 2025 – December 2025

- Collaborated in a 3-person team to design, document, and manufacture a competitive derby car.
- Produced detailed GD&T drawings and fabricated components using manual milling and turning.

Auto-Sealing Cup (Arduino-Based Mechatronics Project) | August 2024 – December 2024

- Designed a "smart cup" prototype featuring an automated sealing mechanism actuated by touch sensors.
- Integrated Arduino microcontroller with sensors and servos to achieve responsive user interaction.

EXPERIENCE

XNRGY Climate Systems, Mesa, AZ | *Industrial Engineering Intern* | June 2026 – August 2026

- Conducted time studies on more than 460 operations across the thirteen main production line stations and eleven supporting subassembly stations.
- Validated more than 100 component instances across engineering and manufacturing documents.
- Aligned discrepancies between the MBOM, EBOM and physical production line configurations.
- Reorganized MBOM structures into a logical sequence that mirrors manufacturing workflows.

Cinemark Theaters, AZ/CO | *Team Member* | May 2025 – May 2026

- Collaborates with a diverse team to manage high-volume customer flow and resolve operational challenges in a fast-paced environment.

INTERESTS

- **Piano:** 13 years of piano playing with regular practice; performed in a Jazz Ensemble.
- **Social Dance:** Active member of Mines Ballroom; weekly Lindy Hop practice and community events.