

Siam Altman

Denver, CO | 720-232-5421 | mcleod3321@outlook.com | linkedin.com/in/siam-alt

Education

Colorado School of Mines — Golden, CO

- **Master of Science — Engineering Technology and Management** *Expected 05/2028*
 - **Bachelor of Science — Mechanical Engineering** *Expected 05/2027*
 - **Specialized Track — Aerospace**
 - **Awards: Colorado Scholars Program — full-ride tuition & fees scholarship**
-

Experience

Lockheed Martin — Lakewood, CO

12/2022–05/2023

Engineering Intern

- Led **mechanical design and integration** for satellite mission on **5-person cross-functional team**; coordinated structures, mechanisms, and thermal subsystems.
- Executed **trade studies** for propulsion mounting, solar array deployment, pointing accuracy, and structural load paths using **Python and Excel**.
- Performed **mass properties analysis**, center-of-gravity calculations, and moment-of-inertia verification to validate spacecraft stability requirements.
- Developed mechanical interface specifications and maintained **configuration control** across avionics bay, propulsion module, and communications hardware.
- Collaborated with senior engineers across **three formal design reviews**, incorporating feedback.
- **Won the intern design competition**, outperforming peer team with rigorous analysis and clear presentation.

Colorado School of Mines Registrar's Office — Golden, CO

04/2025–Present

Registrar Assistant

- Wrote **SOPs/standard work** and training guides, **cutting onboarding time by 35%**.
 - Managed time-critical fulfillment with **QA checkpoints** to achieve **100% on-time, zero-defect** distribution.
-

Leadership & Activities

Mines Rocket Club — Golden, CO

08/2023–Present

Secretary

- **Designed and fabricated high-power rocket** for **~Mach 2** using **SolidWorks**: modeled custom avionics bay and nose cone with threaded inserts, epoxy potting, and fastener interfaces.
- Performed **structural analysis** including interference checks, **tolerance stack analysis**, and basic modal stiffness; verified mass properties and load paths for high-G launch/recovery.
- Executed **composite layup fabrication** (CF/FG) at structural load paths.
- Built **fit-check jigs using 3D printing**, iteratively revised mechanical stack to clear connector interference, and validated assembly on bench.
- Simulated flight performance using **OpenRocket** and custom **Python scripts**; generated **parametric sweep analyses** to validate design margins.
- Mentored **60+ students** through L1/L2 certification, achieving **85% first-time pass rate** (55+ certifications); developed standardized design templates.

Mines Maker Society — Golden, CO

11/2024–Present

Treasurer

- Managed **MRO procurement**; negotiated vendor lead times, **saving \$2,300 YTD**.
-

Skills & Certifications

- **CAD & Design: SolidWorks** (3D modeling, assemblies, drawings, **FEA**); GD&T exposure.
- **Analysis & Simulation:** Finite Element Analysis; structural load analysis; **Python**; **MATLAB**.
- **Software:** Microsoft 365 (**Excel/PowerPoint/Word/Teams**); **LabVIEW**; Git; **L^AT_EX**.
- **Certifications:** CSWA (Certified SolidWorks Associate).