

Stella Cross

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EDUCATION

University of Colorado Boulder, Boulder, CO

Bachelor of Science in Aerospace Engineering

Bachelor of Arts in Chemistry

Minor in Creative Technology & Design

Expected 2026

Expected 2026

Expected 2026

WORK EXPERIENCE

Systems Engineering Intern, Lockheed Martin

Summer 2023

- Worked with the flight test projects team to understand and generate customer requirements, worked with model-based systems engineering principles (MBSE) to assist with design reviews, and assisted with project coordination.

Smead Aerospace Ambassador, CU Boulder

Fall 2023 – present

- Provided exceptional outreach service throughout the Smead Aerospace Department, honed communication and leadership skills, and was involved with activities related to recruiting, retention, and outreach.

ACADEMIC PROJECTS

Astronaut Training Research, NASA Trinity Project

Spring 2023 – Spring 2024

- Investigated how skills transfer from virtual training environments to physical settings, the degree to which VR training enables performance maintenance over long durations, and how well skills learned in the training environment generalize to un-trained tasks.
- Integrated code that sent string variable triggers from Unity using LSL that allowed us to monitor the progress of the subject as they progressed through the simulation. Triggered messages were collected via LabRecorder and sent to an external file once tasks had been completed and synchronizing the results with the time stamp array outputted by using MATLAB

Intern, Western Aerospace Scholars

Fall 2018 – Summer 2020

- In-person: built and coded a robot using a Mindstorms kit, lead an engineering group, collaborated with industry professionals.
- Online: authored research papers on topics varying from asteroid mining to moon craters, presented on technical topics to industry employees.

Intern, Texas Space Grant Consortium

Summer 2020

- Internship through UT Austin and NASA, researched with a team to plan a satellite mission with guidance from a mentor in industry; created a presentation to showcase the results to industry professionals.

CLUBS

Vice President, CU Aerospace Medicine Club

Fall 2023-present

- Help organize and run all-club meetings, coordinates educational and research opportunities for members to learn more about engineering and pre-med, work to plan and finance a club trip to a research conference in spring semester

SKILLS

Technical:

- MATLAB experience
- Microsoft Office Suite
- Unity experience
- fNIRS/EEG

Course Knowledge:

- Aerodynamics
- Thermodynamics
- Chemistry
- Orbital Mechanics

Soft Skills:

- Teamwork
- Communication
- Problem Solving
- Technical writing