

Liam Murphy

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EXPERIENCE

FSAE Aerodynamicist/Manufacturer

CU Boulder Racing Team, Boulder, CO

September 2024 - Present

- Designed ground-effect driven undertray/diffuser for increased aerodynamic performance using CFD
- Manufactured carbon composite aerodynamic elements, as well as machined suspension elements
- Tested layup quality to develop manufacturing procedures for improving weight saving and part consistency
- Conducted static and dynamic vehicle testing to validate aero performance.
- Properly communicate with other sub teams to ensure there are no overlapping design issues

Client Project Team Lead

LotSpot, Boulder, CO

January 2026 - Present

Cubesat Team Lead

CU Boulder Aerospace Projects, Boulder, CO

January 2024 - April 2024

- Designed/manufactured small atmospheric satellite for testing motors/solar panels in extreme conditions.
- Developed leadership skills overseeing 8 engineering students and managed deliverables/designs.

Design Lead

Vex Robotics Competition, Davie, FL

August 2020 - June 2023

- Led design on mechanical solutions to game challenges.
- Finalist at Vex Worlds 2022 with team 4154X.

PROJECTS

FPV Racing Drone

Personal Engineering Project

September 2025 - Present

- Built custom micro-quadcopter with a target power to weight ratio (PWR) of 3+ focused on aerobatics.
- Iterative design process using flight/static test data to improve frame performance and avionics packaging
- Selected avionics via a constraint-driven trade study, balancing weight, size, and power requirements

EDUCATION

University of Colorado Boulder, Boulder, Colorado

Major: Aerospace Engineering, Graduation Date: May 2027, GPA: 3.2

- Organizations: CU Boulder Racing Team FSAE Branch

NSU University School, Davie, Florida

High School Diploma, Graduation Date: May 2023

- Organizations: Vex Robotics, NHS

SKILLS

- **Technical:** Composites Manufacturing, Aerodynamic Design, Machining, CAD, CFD, MATLAB
- **Other:** Team Leadership, Project Management, Technical Communication