

Caleb Kusumo

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EDUCATION

Boston University College of Engineering, Boston, MA May 2029

Bachelor of Science, Mechanical Engineering, Minor: Electrical Engineering

GPA: 3.85/4.0, Dean's List Fall 2025

Activities: Terrier Motorsport

Awards: 3rd Place in Lutron Lighting Competition, Best in Class in Engineering Portfolio Challenge

University High School, Irvine, CA June 2025

GPA: 3.9/4.0

Awards: Magna Cum Laude, Outstanding Engineer of the Year

ENGINEERING EXPERIENCE

Terrier Motorsport Formula SAE, Boston, MA

Steering Lead

March 2026-Present

- Managing steering parameter and geometry research, assembly, design, and fabrication.

Aero & Bodywork Team Member

September 2025-Present

- Collaborating on aerodynamic component fabrication and bodywork integration for formula-style racing vehicles.
- Applying fiberglass composite moulding and manufacturing techniques to optimize vehicle performance.

First Robotics Competition 6560 Charging Champions, Irvine, CA

Build and Electrical Member

September 2022 – April 2023

Manufacturing & Assembly Lead

September 2023 – April 2024

- Led a team of 15+ peers through fabrication processes such as milling, turning, CNC, laser cutting.

Team Captain

September 2024 – April 2025

- Managed design-to-final product timeline, leading a team of 30+ to produce a competitive robot in under 4 weeks.
- Operated as Technician/Drive Team for REEFSCAPE and CRESCENDO, securing 2nd Place at Arizona North Regional and OC Regional, and Innovation in Control, Autonomous, and Creativity awards.

PROJECTS & ENTREPRENEURSHIP

CalebColor Film, Irvine, CA | Boston, MA

2023-Present

Founder / Lead Technician

- Working with a partner to run a high-volume film rolling, distribution and processing service, successfully developing 200+ rolls and selling 400+ rolls of film.
- Performing specialized mechanical repairs on a variety of film and digital cameras, involving intricate shutter timing, film advance, screen, mainboard, shutter, and light seal replacement.

Lutron Lighting Competition, Boston, MA

February 2026

Individual Competitor / Third Place

- Designed, manufactured, wired, assembled and presented a 1:100 scale lighting solution judged on creativity and originality, engineering sophistication, and aesthetic appeal.

4x5 Monorail Camera, Boston, MA

Personal Project

- Designed and manufactured a 3D-printed monorail view camera for 4x5 film, optimized for manufacturing and simple assembly

CERTIFICATIONS

Certified Professional in Design for Manufacturing, Autodesk

April 2026

LEADERSHIP & VOLUNTEERISM

First Robotics Competition 6560 Charging Champions, Irvine, CA

September 2026-Present

Mentor

- Mentoring junior members on electrical systems, CNC operation, milling, lathe turning, and rapid prototyping.

SKILLS

Design & Software: SolidWorks, Fusion 360, Adobe Lightroom/Photoshop/Illustrator, Microsoft Word/Excel/Powerpoint

Manufacturing: CNC Machining, Lathe & Turning, Waterjet, Laser Cutting, 3D Printing (SLA/FDM), Vacuum Forming

Electronics: Soldering, Arduino, Raspberry Pi, Oscilloscope, General Circuitry