

Jack Cantalupo

Mechanical Engineering, Colorado School of Mines

Sophomore, 4.0 GPA

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Work Experience

Colorado FIRST Robotics Volunteer

2025-present

- Alumni mentor of team #11260 Up-A-Creek Robotics
- FIRST Event Volunteer

Volunteer River Watch Steward

2021-2025

- Collect and analyze local river water samples
- Create monthly reports to inform community and EPA
- Attend training workshops, credit through School of Mines

Volunteer Historical Interpreter at Walker Ranch

2016-2025

- Greet guests of all ages, share homesteading history
- Demonstrate 1800's trades, general store, blacksmithing
- Recruit and support new volunteers

Colorado School of Mines M3 Robotics Lab Intern

Summer 2024

- Worked to assemble testing rig for NASA rover
- Worked with other interns to organize lab equipment

Sustainable Applewood Volunteer

2017-2024

- Plan and participate in community outreach events
- Maintain website

Projects

FIRST Robotics, Up-A-Creek (Team #11260)

2022-2025

- Roles
 - Hardware and CAD team member, designed major subsystems
 - Media Team Lead: website management, team photos, video production
- Presentations
 - Modular Design and Iteration, Chicago Robotics Invitational (CRI)
 - How Batteries Affect Robot Performance, Colorado FTC Kickoff
 - Our Journey to Worlds, Romania Day Qualifier
 - E-CLIPS: Design of a World Champion Robot, CRI
- Awards
 - 2022-2023 State Championship Winning Alliance Captain, Inspire
 - 2022-2023 World Championship Finalist Alliance Captain
 - 2023-2024 State Championship Finalist Alliance Captain
 - 2024-2025 World Championship Winning Alliance Captain

Soft Skills: Self Motivation, Problem Solving, Hardworking, Teamwork, Public Speaking

Technical Skills: 3D Printing, Onshape CAD Software, Solidworks, Google Office Suite, HTML/CSS

Design Skills: Wordpress, Photoshop, DaVinci Resolve, Canva, GarageBand

Activities: Mines Theatre Tech, Mines Maker Society, Mines Robotics Club, Youth Speakers