

Alejandro Turnbull

Undergraduate Physics Student

Third year physics student working on detector physics and liquid rocketry, with a passion for communication spanning museum work, political organizing, and space journalism

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Riverside, California

SKILLS

FDM 3D Printing	Composite Materials	Cross-Team	Python	L ^A T _E X
Fusion360	Communication	Collaboration	Project Management	US Citizen

EDUCATION

B.Sc. Physics Candidate

University of California, Riverside 2024 – 2028 (expected) Laguna Niguel, CA

- Curriculum: Applied Engineering Physics

EXPERIENCE AND EMPLOYMENT

Highlander Space Program — President

UC Riverside Oct 2024 – Present Riverside, CA

- Led TANGERINE, a subscale liquid-fueled test rocket — responsible for vehicle design, team coordination, and upcoming flight campaign.
- President of a 70+ member student rocketry organization for the 2026-2027 school year.
- Directing CLEMENTINE development: a scratch-designed, regeneratively cooled Ethanol/LOx engine.

Space Scout – Writer

UC Riverside August 2025 – Present Remote

- Contributing writer at Space Scout, an independent, NASA and USSF-accredited space news outlet.
- Provided in-person coverage of NASA's Artemis II mission from on the ground in Mission Control as accredited media at NASA's Johnson Space Center.

Dr. Shawn Westerdale Lab

UC Riverside Oct 2024 – Present Riverside, CA

- Developing a liquid argon condenser unit for hardware development and testing on the DarkSIDE-20k experiment.
- Built sensor probes to measure temperatures at various points inside the condenser.

Dr. Dave Reinkensmeyer Lab

UC Irvine Jun – Aug 2023 (7 weeks) Irvine, CA

- Developed moving handles in response to patient feedback for AirSTEP, a device that allows patients to mimic walking while supine to promote musculoskeletal recovery.

Villa Philmonté Tour Guide

Philmont Scout Ranch Jun–Aug 2025 (7 weeks) Cimarron, NM

- Led guided tours of the National-Register listed Villa Philmonté as one of a small team hosting 10,000+ visitors over the summer season.
- Helped maintain the historic artifact collection through cleaning, handling, and minor servicing, including operating a 1927 AMPICO player piano on each tour.

Paid Canvasser

Mike Levin for Congress May – September 2024 (16 weeks) Carlsbad, CA

- Knocked over 2,500 doors to re-elect Representative Mike Levin of California's 49th District.
- Designed and 3D printed a jig to sort campaign literature, reducing prep time for canvassers.

AWARDS AND CERTIFICATIONS

Eagle Scout

Highest award of Scouting America.
Fewer than 4% of Scouts attain Eagle.

NAR Level 2 Certified

Certified to purchase and launch rocket motors containing up to 5120N-s of total impulse.

PADI Open Water Certified
Certified to SCUBA dive with a buddy

in open water to depths up to 18 meters.