

# Nathan Thurmon

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## EDUCATION

**University of California, Irvine** | *Bachelor of Science in Aerospace Engineering* September 2025 – June 2029

**Honors:** Dean's Honor List (1 Quarter)

**Placer High School** January 2022 – May 2025

**GPA:** 4.21

## WORK EXPERIENCE

**Science journalist | Lukupp | Berkeley, CA** July 2024 – October 2025

- Published original work targeted at graduating high-school students
- Interviewed career professionals in biomedical and mechanical fields
- Published articles focused on career development, major choice, niche fields of study, and research

## VOLUNTEERING

**Election Aid Worker | Placer County Election Office** October 2024 – November 2024

- Assisted with the set-up, management, and clean-up of the Placer County 2024 general election
- Tasks ranged from identifying voters, issuing ballots, and assisting disabled individuals in the voting process
- Helped over 800 voters cast their ballots at our election location

## PROJECTS

**Fully Custom Model Rocket | Independent** October 2025 – May 2026

- Designed body, electronics, and motor assembly
- Synthesized custom sugar fuel ratio
- Designed flight controller electronics – IMUs, Microcontroller, Battery Management
- Launched successful prototype to a height matching class A motors

**Fully Autonomous Rover | Engineering 7** September 2025 – March 2026

- Developed logic program to guide navigation of autonomous rover
- Assembled and soldered all electronics including Motor, Buck Converter, IR Sensors, Camera
- Iteratively tested and refined variables including motor speed, voltage, turning, logic timing

- Final timing was 200% shorter than initial program logic

## **SKILLS OR LABORATORY SKILLS**

**Programming:** Python, MATLAB, micro-controllers, C++, AI model training

**Software:** Photoshop, Video Editing, Excel, PowerPoint, Canva

**Language:** Native in English, Conversational Spanish

**Additional:** Soldering, welding

## **AFFILIATIONS AND AWARDS**

- Dean's list of recognition Fall 2025

## **LEADERSHIP**

**Astronomy Club President and Founder | Placer High School**

August 2023 – June 2025

- Founded in 2023 to offer the opportunity for all students to explore, collaborate, and generate interest in the sciences at a school where those opportunities were not previously offered
- Dedicated 20+ hours every month outside of school to plan learning opportunities and events
- Drafted club charter and organized original membership drive resulting in consistent membership count of 30

## **RESEARCH INTERESTS**

- Propulsion systems in aerospace vehicles
- Renewable technologies for propulsion in a non-atmosphere environment
- Optical research into exoplanetary bodies