

# Roland Nguyen

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## Personal Profile

Second year Aerospace Engineering student at Cal Poly Pomona, zealous about space technology and avionics. Looking to develop experience in real life engineering practices and result oriented leadership skills.

## Education

### California Polytechnic University of Pomona

Pomona, CA

BS in Aerospace Engineering

Aug 2021 - May 2025

- **GPA: 3.93**
- Dean's List for Fall 2021
- President's List for Spring 2022
- **Relevant Courses:** Engineering Statics, Aero Computational Methods, Aerospace Structural Mechanics, Intro to Aeronautics Propulsion, Intro to Astronautics Rocket Propulsion, Material Science, Multi-Variable Calculus, Linear Algebra and Differential Equations

## Extracurricular Clubs and Projects

### UMBRA - NASA Student Launch

Systems Engineering

Sept 2022 - Present

- Collaborating with a large student lead team in an eight-month research based project sponsored by NASA. The goal is to deliver a payload to orbit using high powered rockets.
- Working with a six-member systems managing team to guide other specialized teams by providing Gantt charts, and implementing an Earn Value Management System
- Personally responsible for working with the Avionics Team by providing guidelines outlined by NASA and reporting relevant data and progress.
- **Skills:** Creating Gantt Charts, Teamwork, Time Management, Cross-team Communication

### Bronco Space - BLADE (Balloon Launch Assessment Directive for Everyone)

Structural Engineering

Sept 2022 - Present

- Collaborating with a team of students to undergo a year-long design competition against peers designing a high-altitude balloon.
- Project aims to deliver payloads that complete various missions such as studying muons from cosmic rays or collecting data for aerosols inside clouds.
- **Skills:** Solidworks, Time Management, Effective cross-functional Communication, Logical Thinking.

### Bronco Space - University AI Rover Project (Bill-E)

Operations Team Member

Oct 2021 - May 2022

- Project aims to design an AI rover capable of traversing and identifying signs of life on Mars for a university rover design competition.
- Conducted risk analysis, systems engineering, and testing.
- **Skills:** SysML, Teamwork Communication, Time Management, Tasking

## Work Experience

### California Department of Transportation

Oakland, CA

Virtual Student Assistant

Aug 2020 - Jun 2021

- Assisted project engineers in the Civil Engineering department.
- Produced plan sheets and created CAD drawings in MicroStation v8i and AutoCAD.
- **Skills:** CAD experience, Departmental Engineering procedures.

## Skills and Interests

### Technical Skills

MS Office, MATLAB, Python and Java, OpenRocket, MicroStation v8i, Linux  
Time Management, Collaboration, Problem-solving, Communication

### Interests

Music, Fitness, History, Linux OS, Film