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

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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

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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.

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Working with a six-member systems managing team to guide other specialized teams by providing Gnatt charts, and implementing an *Earn Value Management System*

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Personally responsible for working with the Avionics Team by providing guidelines outlined by NASA and reporting relevant data and progress.

Skills: Creating Gnatt Charts, Teamwork, Time Management, Cross -team Communication

**Bronco Space ‑ BLADE (Balloon Launch Assessment Directive for Everyone)**

Structural Engineering

Sept 2022 ‑ Present

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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.

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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

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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

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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

