

# Kevin Quintana

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## SUMMARY

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Aerospace Engineering student with 3 years of experience working with CAD programs and creating mechanical systems. Heavily involved in Cal Poly Space Systems and SLO Propulsion Technologies, contributing to team and individual goals. Strong desire to learn and improve technical skills and work in team settings. Strong passion for rocketry and aerospace projects.

## EXPERIENCE

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**Member | SLO Propulsion Technologies (SPT)** *Nov 2023 – Present*

- Developing a 15lb-force bipropellant (IPA and GOX) liquid rocket engine with the use of hand calculations, SolidWorks, and manual machining

**Member | Cal Poly Space Systems** *Sep 2023 - Present*

- Applied adjustments on rocket design using SolidWorks, resulting in a 25% increase in estimated apogee
- Utilized OpenRocket to increase predicted velocity safety margin by 57%
- Achieved a 100% increase in production capabilities of the rocket's fins with SolidWorks and OpenRocket
- Fabrication involvement using composite materials, 3D printed prototypes, and machined parts

**Project Manager | Oxnard High School Robotics** *June 2022 – June 2023*

- Helped direct a 30-member team, planning and communicating progress across subsystems
- Created an 8-week project timeline in preparation for the FIRST Robotics Competition (FRC)

**Design and Fabrication Member | Oxnard High School Robotics** *Aug 2021 – June 2023*

- Designed and fabricated mechanical components of 2 robots with different objectives for multiple robotics competitions

## Personal Projects

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**Thrust Vector Control (TVC) Liquid Rocket Engine Gimbal - Prototype** *Dec 2023 - Present*

- Developing a 3D Printed TVC Gimbal prototype for later installation on a ~50lb-force liquid rocket engine

## SKILLS

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- CAD: NX, SolidWorks, Fusion 360, OnShape
- Programming: Arduino (C++), Python, JavaScript, HTML, CSS
- Machining: Manual Lathe, Manual Mill, 3D Printing, Composites, Common Machine Shop Tools
- Other: Technical Drawings, Microsoft Office, G Suite, GitHub, Visual Studio Code, Prusa Slicer, Cura Slicer
- Soft Skills: Teamwork, Communication, Passion, Adaptability, Time Management

## EDUCATION

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**Bachelor of Science in Aerospace Engineering** *Expected June 2027*

**California Polytechnic State University, San Luis Obispo (Cal Poly) | San Luis Obispo, CA**

- Major: Aerospace Engineering with an Astronautics concentration
- Relevant Courses: Introduction to Design and Manufacturing, Aerospace Fundamentals