

# Kaitlyn K. Nguyen

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## Education

UNIVERSITY OF CALIFORNIA, IRVINE B.S. Mechanical Engineering | **Graduation Date:** June 2025

## Professional Experience

**Parker Aerospace – Engineering Intern**

**Jul 2024 - Sep 2024**

- Worked with senior engineers to update Parker specs in ENOVIA, enhancing accuracy and readability.
- Revamped the seal squeeze program to enhance user-friendliness and automate input processes, incorporating custom glands and square seals, which improved accuracy and efficiency for engineering applications.
- Redesigned an environmental seal in CATIA to utilize a two-piece mold, significantly reducing manufacturing costs and improving production efficiency.

## Relevant Experience

**UCI Rocket Project Solids – Sponsorship, Outreach, and Events Coordinator**

**Jan 2025 - Jun 2025**

- Drafted and sent sponsorship emails to 100+ companies, securing over \$1,500 in funding for the rocket team.
- Assisted in manufacturing rocket components including the aerobody, avionics bay bulkheads, and carbon fiber fins to improve structural integrity and aerodynamic performance.
- Supported the propulsion team in casting a potassium nitrate sorbitol solid M-Class rocket motor while following safety protocols and gaining hands-on experience with energetic materials.
- Designed, manufactured, and launched a Level 1 high-power rocket using OpenRocket; achieved an estimated apogee of 1,976 ft and successfully recovered the vehicle to earn Tripoli Level 1 certification.
- Competed in the International Rocket Engineering Competition with 21 other teammates; awarded 1st place in 10K SRAD category and 1st place for team video presentation.

**UCI Capstone Project | Two-Phase Cold Plate – R&D Engineer**

**Jan 2025 - Mar 2025**

- Researched two-phase cold plate systems and designed an initial model in SolidWorks based on market analysis.
- Designed four cold plate models for heat dissipation simulations, integrating existing market solutions with innovative concepts based on team research.

**FSAE Anteater Electric Racing – Chassis Engineer**

**Apr 2023 - Apr 2024**

- Utilized SolidWorks to design a 3D rear chassis sketch, meticulously verifying compliance with specified parameters and seamless integration of suspension, powertrain, electronic, human interface, and accumulator systems.
- Modeled and designed the aerobody components of the chassis in SolidWorks, including the nose cone, main and front roll hoop shell, and underbody, resulting in a 14% reduction in drag coefficient from the initial design.

## Leadership & Awards

**UCI Samueli School of Engineering**

*Mechanical and Aerospace Engineering Undergraduate of the Year 2025*

**Awarded April 2025**

- Recognized for outstanding contributions to ASME At UCI, active involvement in engineering projects, and consistently fostering a welcoming and inclusive environment for peers.

**American Society of Mechanical Engineers at UCI Board**

*Vice President*

**Mar 2024 - Apr 2025**

- Served as the primary backup to the president, co-lead strategic meetings, and oversaw event planning for ASME.
- Delegated tasks to board members and directors to ensure smooth operations and efficient execution of our events.
- Fostered a supportive community for engineering students, promoting technical and professional development.

*Secretary*

**Apr 2023 - Mar 2024**

- Collaborated with the 2023-2024 board to increase club membership by 250%, growing from 20 to 70 members.
- Managed documentation, communication with the national organization, and Google Suite for streamlined operations.

*Internal Communications Intern*

**Feb 2023 - Apr 2023**

- Planned and coordinated events for the ASME board in collaboration with team members.
- Designed flyers and co-created newsletters to promote club events and updates.

## Relevant Skills

SolidWorks, CATIA, OpenRocket, Finite Element Analysis, GD&T Principles, ENOVIA PLM Software, Microsoft Office Suite