**Alex Stefany**

949-244-4189 | astefany@uci.edu | alexstefany.com

**CAREER OBJECTIVE**

Aspiring mechanical engineering student with strong hands-on experience in design, prototyping, and manufacturing, seeking an internship opportunity to apply skills to create a sustainable future. Eager to contribute to innovative projects by leveraging CAD expertise, fabrication skills, and analysis to drive success.

**EDUCATION**

**University of California, Irvine** September 2022 - March 2026

Bachelor of Science Mechanical Engineering (GPA 3.81/4.00)

Minor in Accounting

* University of California Regents Scholar, 7 Consecutive Quarter Dean’s Honors List, Tau Beta Pi Engineering Honor Society Initiate
* Fall 2024 semester at the Alma Mater Studiorum Universita Di Bologna, Italy

**ENGINEERING PROJECT EXPERIENCE**

**SAE Anteater Formula Racing, Irvine, CA**  July 2023 - Present

Powertrain Design Engineer

* Worked on the design and optimization of fuel system components, collaborating with the human interface and chassis team to ensure a successful implementation of the new system.
* Utilized SolidWorks CAD modeling and FEA simulation to enhance the fuel system’s efficiency, reducing slosh by 31% and weight by 12%, supporting goals for performance and cost.
* Performed cost-benefit analysis on fuel tank aluminum alloy and gauge, along with producing in-house or outsourcing to ensure the best performance with the lowest manufacturing cost. Completed in-house machining for fuel cell.

**Tesla, Austin, TX** January 2025 - June 2025

Engineering Program Management Intern

**US Army Corps of Engineers, Los Angeles, CA** June 2024 - August 2024

Design Engineering Intern

* Contributed to the $44 million Murrieta Creek channel design by gathering and processing cross-departmental data, which was used in the creation of comprehensive structural models in AutoCAD.
* Led the BCOES design review process by creating and presenting detailed charts that addressed over 124 critical concerns to management, ensuring key issues were resolved quickly during the design review phase.
* Excelled in Army leadership and risk management courses, demonstrating strong decision-making skills; passed government personal security investigation.

**SKILLS**

**Computer**: Certified SolidWorks Associate, AutoCAD, MATLAB, Python, Microsoft Office, FEA Simulation

**Manufacturing**: Mill and Lathe Manufacturing, CNC Machining, MIG Welding, 3D Printing, Electronics Soldering, Geometric Dimensioning and Tolerancing, Quality Control

**Leadership:** Conflict Resolution, Problem-Solving, Decision Making, Communication, Strategic Planning