Alex Stefany

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CAREER OBJECTIVE

Mechanical engineering student with hands-on experience in design, prototyping, and manufacturing, seeking a full-time engineering role to contribute to innovative product development.

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, Tau Beta Pi Engineering Honor Society Initiate, VP Sigma Phi Epsilon Fraternity, 8 Consecutive Quarter Dean's Honors List
- Fall 2024 semester at the Alma Mater Studiorum Universita Di Bologna, Italy

ENGINEERING PROJECT EXPERIENCE

Bounds Mills, Los Angeles, CA June 2025 - Present

Manufacturing Engineer

- Developed models and drawings for 8 pepper mill models. Imlpemented design for manufacturing including draft angles, uniform wall thickness, and ribbing, reducing tooling complexity and scrap rates
- Applied GD&T (true position, flatness, concentricity) to critical mating features of mill components, enabling the factory to hold tight tolerances during machining and ensuring reliable assembly and long-term equipment performance.
- Reduced tooling and mold requirements by designing common parts that worked across multiple mill models and reducing individual parts in each model, cutting overall part count and lowering production costs

Tesla, Austin, TX January 2025 – June 2025

Engineering Program Management Co-Op

- Lead time critical Cybercab projects across the manufacturing, factory engineering, and vendors by facilitating design reviews, managing program schedule/budget, and actively working to resolve technical challenges
- Developed an engineering drawing analysis program using a combination of Python and VBA, saving the EPM team 200 hours of manual data entry and calculations per year
- Identified problem with open number of manufacturing design clashes within the factory, within one month was able to reduce design clashes by 41.8%, resulting in less time wasted during equipment installation

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

Powertrain Design Engineer

- Developed a lightweight intake plenum that maximized peak RPM performance by iterative CFD in Ansys Fluent and implementing a composite 3D printing process
- Utilized SolidWorks CAD modeling and Ansys Fluent simulation to enhance the fuel system's performance, reducing slosh by 31% and weight by 12% compared to previous model
- Performed cost-benefit analysis on fuel tank aluminum alloy choice, along with producing in-house or outsourcing to ensure the best performance with the lowest manufacturing cost. Completed in-house machining for fuel tank

SKILLS

Computer: Certified SolidWorks Professional, AutoCAD, MATLAB, Python, Microsoft Office, Ansys Fluent Simulation, KiCad PCB

Manufacturing: Mill and Lathe Manufacturing, CNC Machining, MIG Welding, 3D Printing, Geometric Dimensioning and Tolerancing