

Eric Jiang

916-753-7382 | San Diego, CA 92093 | ericxjiang1628@gmail.com | [linkedin.com/in/eric-jiangg/](https://www.linkedin.com/in/eric-jiangg/) |

EDUCATION

University of California, San Diego

Bachelor of Science in Aerospace Engineering

Graduation: Jun. 2029

La Jolla, CA

- **Jacobs Scholar: Full-ride** merit-based scholarship awarded to ~ 0.01% of admitted engineering applicants annually for academic excellence, leadership, and innovation.

EXPERIENCE

Xanadu Rocket Structural Engineer

Rocket Propulsion Laboratory - Project Daedalus

October. 2025 – Present

San Diego, CA

- Designed and validated a **30-inch** G-class rocket with 4 people, performing CG/CP stability analysis, iterative configuration testing in OpenRocket, and structural design refinements to maintain stability margins
- Sized recovery parachute via drag-force equilibrium ($C_d = 0.9$) to cap descent at 15 ft/s, chose 30-inch canopy
- Modeled **NACA 0012** fins in **SolidWorks** using imported coordinate data to generate lofted geometry
- Authored technical design documentation and presented at Critical Design Review (CDR), incorporating cross-team feedback into final configuration

Product Design Intern

Silkroad Exclusive Inc.

Jun. 2025 – Aug. 2025

Stockton, CA

- Designed and prototyped bathroom vanity components using **Shapr3D** and **FDM** printing **Bambu P1S**
- Applied **GD&T** to reverse-engineer existing vanities and generate accurate **CAD** models for production
- Produced dimensioned drawings in **Fusion 360** and validated manufacturability against production constraints

PROJECTS

EcoSentry Smart Greenhouse | Arduino, Camera Module, Python, Google AI

- Designed and built an autonomous greenhouse system integrating soil moisture sensor, DHT temperature and humidity sensor, camera module, **Arduino** microcontroller, and FDM printed and laser cut chassis
- Programmed threshold-based self-watering control logic using calibrated soil moisture readings
- Integrated camera with **Google AI model** trained on basil leaf dataset to classify plant health and display diagnostics on OLED via I2C

Anti-Procrastination Device | Fusion 360, Bambu Slicer

- Built **IoT-enabled** phone lockbox integrating **FDM**-printed components and dual-software control system
- Reduced user screen time by **2+ hours** per day through timed locking mechanism and task tracker web app
- Marketed and sold custom prototypes and profited **\$250+** with over **20** satisfied customers.

Trebuchet | Routing Machine, Fusion 360, Table Saw, Miter Saw

- Modeled in Fusion and built a **7-ft**-tall trebuchet engineered to maximize torque and launch distance
- CNC-machined swing-arm components in **Fusion 360** and built sturdy base to withstand repeated launches.
- Designed and executed test plan across **50+** launches, adjusting arm angle and counterweight based off results
- Set a new record with a **224-ft launch**, beating previous record by **30+ feet** ranking **1st** out of 15 teams.

TECHNICAL SKILLS AND AWARDS

Software: SolidWorks, Fusion 360, SolidWorks Flow Simulation, OpenRocket, Google Sheets, Python, C

Hardware: FDM 3D Printing, Laser Cutter & Engraver, CNC Machining, MIG Welding, Soldering

AWARDS

2026 Northrop Grumman Poster Board Glider Champion: designed and built a glider in **45 minutes** achieving a **30 ft** glide distance, outperforming the second-place design by **2×**

Alpha Award: 1 of 10 selected from 550 students for well-rounded academics and extracurriculars