

Max Schechter

(781) 513-6661 • max.schechter@icloud.com • [linkedin.com/in/max-schechter](https://www.linkedin.com/in/max-schechter) • maxschechter.com

EDUCATION

California Polytechnic State University, San Luis Obispo

Sep 2022 - Jun 2026

Bachelor of Science in Mechanical Engineering - Honors Program - GPA: 3.67

Concentration: Mechatronics

WORK EXPERIENCE

Tesla

Fall 2026

Mechanical Engineering Intern

- Designing tools used for the repair and service of Tesla energy products.

Fluke Corporation

Mechanical Engineering Intern – Product Design Engineering Team

Summer 2026

- Translated ID surfaces into a manufacturable injection-molded top case in Creo, applying surfacing, parting-line strategy, uniform wall thickness, draft, ribs, bosses, and plastics DFM principles.
- Designed and built a drop-test fixture, integrating mechanical, pneumatic, and electrical systems.
- Applied FEA, tolerance analysis, and hand calcs to guide mechanical design decisions and assess failures.
- Designed and built an electronics enclosure to package drop-fixture PCBAs, power supply, microcontroller, speaker, user controls, and wiring.
- Developed drop-test fixture software, integrating hardware control, high-speed video capture, and analysis.

Mechanical Engineering Intern – Sustaining Team

Summer 2025

- Supported the transition of sheet-metal components from internal to external suppliers.
- Rebuilt and modified sheet-metal parts using original engineering drawings, golden samples, and assembly analysis.
- Helped design and build a demo unit for a new solar ground-fault locator.
- Worked with the Industrial Design team to ensure parts aligned with intended CMF specifications.
- Wrote a Python script to automate the collection of distributed part data for over 1000 parts and weldments.
- Helped the procurement team integrate AI (LLMs and OCR) into their data collection workflow.

PROJECT EXPERIENCE

Prototype Vehicles Laboratory [PROVE]

2022 - 2026

Project Manager (Co-President) / Design Engineer

- Led an interdisciplinary team of over 140 students and a team of 12 sub-team leads working to design and build an ambitious electric sports car aimed at traveling over 1000 miles on a single charge.
- Designed an alignment and integration system to mount the vehicle's carbon fiber aeroshell to the chassis.
- Designed headlights and taillights for the vehicle under tight packaging constraints.
- Designed and built a charge port housing for the car using Siemens NX.
- Made the strategic decision to redesign the vehicle's battery pack, considering safety risk, feasibility, and long-term goals.
- Worked with the low-voltage team to establish a relationship with the motor controller supplier, eliminating a long-standing blocker and enabling successful motor control and the first vehicle drive in project history.
- Managed two major recruitment cycles, bringing in and onboarding over 60 new members.

SKILLS & CERTIFICATIONS

Product Development: Surfacing | Plastics DFM | Electronics Packaging | PCB Design

Mechanical Design: CAD (NX, SolidWorks, Fusion 360, Creo) | FEA | Engineering Drawings / GD&T

Manufacturing: Mill | Lathe | CNC | Sheet Metal | 3D Printing | Composites | Injection Molding

Other: Excel | Power Automate | Blender | Photoshop | Python | Git

Honors/Certifications: SolidWorks CSWA | Eagle Scout | Dean's List