

# Mois Cohen

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## Mechanical Engineer

Resourceful engineer with proven expertise in product design and testing, and international manufacturing collaboration. Skilled in CAD/FEA, prototyping, and MATLAB, with a track record of improving product performance. Demonstrates eagerness to learn, and excels at communication and adapting to new environments and technologies.

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## EDUCATION

B.S. Mechanical Engineering | California Polytechnic State University, San Luis Obispo  
September 2021 - June 2025 | GPA: 3.2

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## TECHNICAL SKILLS

**Simulation & Testing:** FEA, Thermal Analysis, System Modeling, Wind Tunnel Testing, GD&T

**Programming & Data Analysis:** MATLAB, Python, Excel, Engineering Statistics

**CAD & Prototyping:** SolidWorks, Autodesk Suite, DFM, Rapid Prototyping, Conventional & CNC Machining, Drafting

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## PROFESSIONAL EXPERIENCE

### California Polytechnic State University | San Luis Obispo, CA

*Senior Design Project: Wildland Fire Hose Clamp, September 2024 - Present*

- Performed advanced CAD modeling and FEA simulations to refine clamp design, improving strength by 30%
- Led design reviews with industry professionals, incorporating feedback to enhance product durability and performance
- Simulated various operating conditions to identify and mitigate potential failure modes early in the design process
- Coordinated with Cal Fire to ensure the final design met all fire protection requirements and specifications

*Mechanical Engineering Research Assistant, April 2024 - Present*

- Conducted campus-wide sustainability research improving HVAC cooling capacity by 15%, developing innovative thermal comfort solutions through extensive data analysis and engineering optimization
- Designed and implemented comprehensive monitoring network of 200+ sensors across 50 rooms in 11 buildings creating a robust data acquisition infrastructure that enabled real-time performance analytics
- Collaborated with cross-departmental faculty team to transform environmental data into actionable sustainability strategies, establishing long-term energy management protocols that improved efficiency across campus facilities

### K2 Systems US | San Diego, CA

*Mechanical Engineering Intern, June 2024 - September 2024*

- Developed testing methodologies and data collection systems, reducing test duration and improving accuracy by 50%
- Conducted fire, wind, and rain certification testing to ensure product compliance with Underwriters Laboratories
- Generated detailed engineering drawings incorporating GD&T, and created customer-facing technical materials to support product marketing and client purchasing decisions
- Designed and constructed test fixtures minimizing measurement errors and streamlining test setups

### Nina Labs | Tel Aviv, Israel

*Junior Engineer, June 2023 - December 2023*

- Drove design for manufacturing (DFM) optimization initiatives by redesigning the chassis interior reducing assembly time 35% and simplifying manufacturing processes cutting production costs by 15%
- Designed electromechanical test fixtures in SolidWorks while creating automated validation systems with Python and MATLAB that streamlined quality control verification for both production units and prototypes
- Led iterative testing and redesign efforts increasing product reliability improving device accuracy by 80%

### Autoprint Inc. | San Diego, CA

*Co-founder and Chief Mechanical Engineer, November 2020 - November 2021*

- Co-founded 3D printing startup, led technical development and oversaw marketing and financial operations
  - Directed R&D for IoT-enabled 3D printer, allowing for a 90% shorter pre-print time and fully remote operation
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## LEADERSHIP & ACHIEVEMENTS

- **Eagle Scout** - Designed a park trash collection system, raised funds and managed the budget. Led a team of 12 scouts handling materials transport, construction, and installation. Project success led to multiple follow-up projects
- **Student Pilot and Ground School Instructor** - Taught aerodynamics and aircraft systems to 150+ students
- **Chabad on Campus Board Member** - Managed student teams, organized events, and managed a \$500,000 annual budget