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.

EDUCATION

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

TECHNICAL SKILLS

Simulation & Testing: Thermal, Vibration, and Fatigue Analysis, System Modeling, Wind Tunnel Testing, GD&T, FEA
Programming & Data Analysis: MATLAB/Simulink, Python, Excel, Engineering Statistics, Data Visualization
CAD & Prototyping: Solidworks, Autodesk Suite, DFM, Rapid Prototyping, Conventional & CNC Machining, Drafting
Miscellaneous: 3D Printing, Electrical Systems, Welding, Automotive Maintenance/Repair, Plumbing & HVAC

PROFESSIONAL EXPERIENCE

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 saving $4000 in production costs over two months
- Designed electromechanical test fixture in SolidWorks and created automated validation systems with Python and MATLAB to improve quality control verification for both production and prototype units reducing testing costs by $8K
- Led iterative testing and redesign efforts increasing product reliability improving device accuracy by 80%

California Polytechnic State University | San Luis Obispo, CA

Senior Design Project: Wildland Fire Hose Clamp, September 2024 - June 2025

- Performed advanced CAD modeling and FEA simulations to refine clamp design, improving strength by 30%
- Led design reviews with industry professionals, incorporating feedback to boost 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 - June 2025

- 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

Autoprint Inc. | San Diego, CA

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

- Co-founded 3D printing startup and led technical development of a new proprietary printer design
- Filed provisional patent for novel 3D printing technology and managed $32,000 operating budget
- Engineered IoT-enabled 3D printer system, reducing pre-print setup time by 90% and enabling remote operation

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