Mois Cohen

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Mechanical Engineer with hands-on experience in product design, validation testing, and system optimization. Proven ability to improve manufacturability, reduce testing costs, and accelerate development cycles in both startup and corporate environments. Seeking roles in R&D and product development where technical design, communication, and cross-functional collaboration are valued.

EDUCATION

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

PROFESSIONAL EXPERIENCE

K2 Systems US

Mechanical Engineering Intern, June 2024 - September 2024

- Cut UL certification testing time by 50% by automating data processing in Excel and developing standardized testing procedures company-wide with comprehensive documentation and protocols
- Identified $15K in potential cost savings by collaborating with Mexican engineering and manufacturing teams to analyze design modifications and manufacturing improvements
- Reduced fixture costs by 90% while eliminating measurement errors by designing innovative low cost test fixtures

Nina Labs

Junior Engineer, June 2023 - December 2023

- Reduced pour variation by 80% by engineering Python based pour-testing jig uncovering critical valve design flaws
- Enabled deployment at Las Vegas Sphere for U2 opening concert by ensuring valve reliability through testing jig
- Eliminated $8K in outsourced testing costs by designing automated test fixture with Python control system
- Reduced assembly time by 35% and cut production costs by $4K by applying design for manufacturing principles to redesign chassis interior while maintaining strict food safety and alcohol compliance requirements

Cal Poly, San Luis Obispo

Mechanical Engineering Research Assistant, April 2024 - June 2025

- Reduced campus energy consumption by 15% in studied buildings by analyzing 6 months of HVAC performance data and implementing optimized operation based on seasonal usage and weather forecasting
- Enabled energy optimization across 11 campus buildings by deploying 200+ IoT sensors with MATLAB data pipeline providing findings performance dashboards to facilities management
- Conducted confidential heating system research for NexGen Heating using processes developed during HVAC research

PROJECTS

Cal Poly, San Luis Obispo

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

- Refined clamp design in SolidWorks with FEA analysis, achieving 30% higher strength than design specifications
- Designed overcenter mechanism to achieve required clamping force in compact form factor, solving critical mechanical advantage challenge
- Led field testing protocols and validation procedures ensuring clamp performance met Cal Fire operational requirements under real wildland fire conditions
- Created technical drawings and assembly procedures enabling manufacturing readiness and gained Cal Fire interest in potential production

Autoprint Inc.

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

- Co-founded 3D printing startup that attracted over 100 Kickstarter backers while leading technical development of proprietary printer design and filing provisional patent
- Reduced pre-print setup time by 90% by engineering IoT-enabled printer system with remote monitoring
- Incorporated user feedback and market research validating 5-year product lifespan

LEADERSHIP & ACHIEVEMENTS

- **Eagle Scout** - Led team of 12 volunteers to design and install comprehensive park waste collection system, resulting in eight additional municipal installations and improved community environmental impact
- **Student Pilot and Ground School Instructor** - Taught aerodynamics and aircraft system principles to 150+ students
- **Chabad on Campus Board Member** - Managed $500K annual budget using financial planning and accounting principles and coordinated events and operations