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 or product development where technical design, testing rigor, 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
- Standardized testing Reduced fixture costs by 90% while eliminating measurement errors by designing custom 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

California Polytechnic State University, 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

California Polytechnic State University, 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 $11,000 in Kickstarter backing 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