

Gabriel Cohn

Senior Mechanical Engineer

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Portfolio: gabecohn.com

Summary

Senior Mechanical Engineer with over 20 years of experience leading product development in wearables, medical devices, RF systems, tracking devices and wireless base stations as well as working on subsystems of complex devices. Expert in delivering reliable, cost-effective solutions from concept through production. Skilled in mentoring teams, securing FDA approval, and driving NPI in startup environments. Known for excellent communication skills and fast results.

Core Competencies

Cross-functional Collaboration | CAD Design | Thermal Optimization | EMI Sealing | Antenna Integration | Fixtures & Jigs Development | Electromechanical System Design | Materials and Component Selection | DFM | 2D Drawings | Rapid Prototyping | R&D | Wearables | Consumer Electronics | CFD/FEA | Root Cause Analysis | SolidWorks | PCBA Integration | Project Management

Experience

Movano Health – Pleasanton, CA

Principal Mechanical Engineer

Feb 2023 – Apr 2025

- Led NPI for Evie Ring (8 sizes) and portable charger, securing FDA approval through cross-functional collaboration.
- Led development of cuffless blood pressure monitor; prototypes in clinical trials.
- Developed novel, disposable gasket system for airtight encapsulation, enabling mass production.
- Built and mentored ME team to replicate and enhance contract manufacturer's lab processes.
- Increased manufacturing yield from 95% to 99% and reduced field failures from 2.0% to 0.25% by optimizing encapsulant process.

Staff Mechanical Engineer

Mar 2022 – Feb 2023

- Engineered Beta version of flagship wearable as first ME, using AMIM, micro-injection molding, and precision turning.
- Established biocompatible material selection and testing protocols for durability.
- Resolved beta testing issues, including Environmental Stress Cracking, encapsulation, and PCBA failures, by investigation, testing, replication, research and collaboration with vendors.

Energous Corp. – San Jose, CA

Staff Mechanical Engineer

Feb 2016 – Jan 2022

- Developed and prototyped 50+ wireless charging TX/RX systems for various partners including Fortune 10 companies, using machining, 3D printing, urethane casting, and sheet metal.
- Developed thermal solutions for hardware from <5W wearables to 1000W+ transmitters, using FEA and hand calculations.
- Created patented wireless charging systems for smart glasses and hearables.
- Optimized antenna and enclosure design with RF engineers, improving efficiency and reliability.

Senior Mechanical Engineer

Jul 2014 – Feb 2016

- Built lab with laser cutter, FDM/SLA printers, and benchtop mill for rapid prototyping.
- Designed test fixtures for PCBA and RF performance testing in on-site chambers.
- Engineered thermal solutions at PCBA level with EE team.

Empirical Design – Mill Valley, CA

Nov 2012 – Present

Principal Consultant

- Contributed to subsystems for **Alion Energy's** solar panel installing and cleaning robots, including self-deploying support, a concrete slide form, and an adhesive dispense system.
- Redesigned test hardware at **PDF Solutions** for the **Semiconductor Analytics Team**.
- Designed and brought to market multiple rugged tracking devices for **Nagra Kudelski Group**.
- Optimized fluid and thermal profiles for novel medical devices for **Swope Design Solutions**.

Early Career

Argyle Design (2007–2011): Senior Product Designer. Designed high-volume sheet metal and injection-molded enclosures as well as low volume diecast and sand cast components using Creo and Flow Simulation.

Proctor Engineering (2004–2007): Test Engineer. Designed test fixtures and time delay relay enclosures for high-efficiency air conditioners.

Education

BS, Mechanical Engineering (Cum Laude), UC Berkeley

BA, Latin American Studies, UC San Diego

Additional Information

Patents: US12218519B2 (wireless charger for smart glasses with 2 other inventors), USD1046771S1 (Charger design with 1 other inventor), US10226136B2 (Device for learning to walk www.willawalker.com, sole inventor)

Languages: English, Spanish (conversational)