

Sara Crogh

EDUCATION

University of California, Berkeley

B.S Mechanical Engineering | **Concentration** in Product Design | Mechanical Engineering Honor Society

GPA: 3.75/4.0

WORK EXPERIENCE

Cherish Health (Startup)

Boston, MA

Product Design Engineer

Apr 2025 - Present

- Owned product roadmap for radar-based sensing systems in home health robotics, aligning cross-functional priorities between mechanical, electrical, software, and manufacturing teams.
- Defined product requirements balancing RF transparency, thermal performance, and environmental sealing for reliable operation across varied install environments.
- Directed DFM and assembly process improvements, reducing build time by 60% and improving yield consistency in MP.
- Coordinated prototype-to-production transition, leading validation testing (durability, drop, environmental) and integrating user feedback into design iterations.
- Delivered manufacturing documentation (BOMs, tolerance stacks, assembly guides) to global partners.

Apple

Cupertino, CA

Product Design Engineer Intern

May 2024 - Sep 2024

- Developed new features for Apple Input Devices through user-driven design, prototyping, and validation.
- Achieved an increase in fatigue limits and a higher user-applied force via ergonomic testing and capacitance simulations.
- Created MATLAB programs for data analysis and simulations; built test setups to evaluate mechanical-electrical interface performance.

The MBA Fund

Berkeley, CA

Campus Investment Partner

Sep 2024 - Jun 2025

- Source early-stage founders for a pre-seed/seed fund supporting startups from UC Berkeley, Stanford, Wharton, and Harvard.

UC Berkeley, College of Engineering

Berkeley, CA

Graduate Student Instructor

Jan 2024 - Jun 2025

- Lead labs for 150 undergrad students, teaching GD&T, fits, manufacturing processes, mechanical engineering design principles, and tolerance analysis for fabrication and metrology, fostering practical application of product design.
- Lead students through lab activities and design projects, solving complex engineering problems such as tolerance analysis, manufacturing process selection, and feasibility. Ensuring timely project completion, with a focus on teamwork.

Mimik - Cloud Software

San Francisco, CA

Project Manager, Consultant

Aug 2022 - Jan 2023

- Led a 6-month consulting project to define product-market fit in the IoT/FemTech space, increasing TAM by 34%.
- Managed sprint planning, market research, and competitive analysis to guide engineering focus.

PROJECTS & EXTRACURRICULARS

Formula Electric Berkeley: Designed and fabricated precision suspension jigs and manufactured 30+ chassis and steering components to tight tolerances. Led in-house manufacturing during integration, mentoring engineers in machining/assembly.

Roommate Noise Guard: Automated IoT system using **INMP441 microphone** + **ESP32** to monitor noise and send alerts via IFTTT.

Radiation Detector: Portable sensor device integrating GPS, temperature sensing, and shielding design using Raspberry Pi.

SKILLS & INTERESTS

Product Management | Roadmapping | Cross-Functional Leadership | User-Centered Design | DFM | Prototyping | Market Research

Softwares: SOLIDWORKS, FEA, CFD, Python, Micropython, Ansys, Inventor, Fusion 360, AutoCAD, NX, MATLAB, 2D, ArtiosCAD, CATIA, COMSOL, Excel, Microsoft, FIGMA, PowerPoint, Microsoft Excel

Languages: Norwegian (native), English (fluent), Spanish (fluent), and Portuguese (proficient)