

IAN SHAIN

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EDUCATION

University of California, Berkeley
B.S. Mechanical Engineering, May 2016

Concentrations Human-Centered Design · Entrepreneurship
Activities & Societies Design Consulting · Engineering Tour Guide · Kappa Alpha Order

WORK EXPERIENCE

Mechanical Design Engineer (Contract) July 2016 - Present
Shapeable *Berkeley, CA*

- Parametrically modeled and fabricated several high fidelity ‘looks like/works like’ prototypes for clients looking to raise early stage investment and show proof of concept (UAV, IoT, housewares, and consumer electronics industries).
- Rigorously designed parts for injection molding, sheet metal stamping, and ingress protection (IP66).

Mechanical Engineering Intern September 2015 - January 2016
Cooper Perkins, Inc. *San Francisco, CA*

- Designed and tested die cast, forged, and stamped metal parts for mass production in the consumer products industry.
- Created test plans and ran FEA simulations that identified failure modes and inefficiencies in product architecture.

Mechanical Engineering Intern, Wearable Product Development May 2014 - August 2014
Proteus Digital Health *Redwood City, CA*

- Fabricated and tested ‘proof of concept’ biosensor prototypes according to IP67 and durability requirements.

Co-founder & Product Designer August 2013 - May 2014
Kanga Kare *Berkeley, CA*

- Developed a low-cost, incubating garment aimed at preventing premature infant mortality in developing countries.

Product Design Researcher February 2014 - May 2014
DynaOptics *Berkeley, CA*

Learning Experience & User Experience Intern, AutoCAD Team June 2013 - August 2013
Autodesk *San Rafael, CA*

Manufacturing Engineering Intern June 2012 - August 2012
Edwards Lifesciences *Irvine, CA*

VOLUNTEER ACTIVITIES

Design, Engineering, and Fabrication Support May 2016 - Present
Flux Foundation *Oakland, CA*

- Constructed large-scale art sculptures to serve as a community catalyst for education, collaboration, and empowerment.

SKILLS

Ideation User Needs Assessment · User Research · Brainstorming · Design Methodologies
Design SolidWorks · Fusion 360 · AutoCAD · DFM · Plastic & Metal Parts · Microcontrollers
Fabrication CNC Machining · Manual Machining · Rapid Prototyping · Sewing · Soldering
Testing & Analysis FEA · GD&T · MATLAB · User Testing · R · Instron Testing
Other Eagle Scout · Photography · Illustrator · Woodworking