

## PROFESSIONAL EXPERIENCE

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### Senior Device Development Engineer

July 2021 - Current

Genentech | South San Francisco, California

- Develop verification testing methodologies & analyze verification testing data to drive combination product development.
- Support design & manufacturing process changes with technical engineering input, while interacting with internal groups: Quality, Process Engineering, Laboratory Testing, Program Management & Clinical.

### Mechanical Engineer (Promoted November 2020)

April 2020 - March 2021

Equalize Health (formerly D-Rev) | San Francisco, California

- Designed a graphical interface for a respiratory support device for emerging markets to transcend language barriers, by designing & conducting formative usability studies & using Clinical, Firmware Engineering & Industrial Design input.
- Designed interface hardware for the device based on product requirements, with rapid prototyping & tolerance analysis.
- Executed verification testing, authored test methods & designed & built testing fixtures for the electromechanical device.

### Product Design Engineer

April - October 2019

Maestro Product Design Consultancy | San Carlos, California

- Designed mechanisms & parts for injection molding, for consumer devices, medical devices & industrial equipment.
- Performed ethnographic research & heuristic evaluations of home entertainment systems & gaming consoles.
- Built electromechanical prototypes for verification testing, usability assessments & marketing approval.

### Verification Engineer

February 2015 - May 2017

IronRidge Inc. | Hayward, California

- Designed testing programs for +10 residential solar products, including usability testing & cross-functional input.
- Authored & executed engineering verification tests to facilitate design transfer with suppliers while in China & Taiwan as IronRidge's sole Verification Engineering representative.

### Assistant Engineering Researcher

June 2013 - July 2014

UC Davis Agricultural Engineering Department | Davis, California

- Defined product requirements for & designed & built a remotely controlled agricultural spraying device.
- Designed & executed validation testing for the spraying device, while organizing other research assistants' participation.
- Facilitated communication in a multi-stakeholder environment as a Spanish translator during field research.

## EDUCATION

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### Northwestern University

#### Master of Science | Engineering Design Innovation

June 2018

##### Product Design Master's Thesis | Sol, a Light Therapy Device

- Designed & built an adaptive light therapy device to help people experiencing seasonal affective disorder, using human-centered design processes such as ethnographic research, user testing, insight generation & rapid prototyping.
- Researched the light therapy product landscape with product benchmarking, reverse engineering & market research.

### University of California, Davis

#### Bachelor of Science | Mechanical Engineering

June 2014

##### Mechanical Engineering Intern | General Dynamics (Summer 2010, 2011, 2012)

- Developed & implemented manufacturing instructions within a regulated in-house manufacturing environment.
- Regulated manufacturing activity using statistical process control methods while mediating communication between Manufacturing & Quality groups.