

Sheila Lo

www.sheilalo.com | contact@sheilalo.com

EDUCATION

Northwestern University (Evanston, IL)

M.S. Engineering Design Innovation (Human-Centered Design)

Sept 2016 – Dec 2017

California Institute of Technology (Pasadena, CA)

B.S. Mechanical Engineering

Oct 2012 – Jun 2016

SKILLS

Software: SolidWorks, Solid Edge, MATLAB, Mathematica, Adobe Creative Suite (Photoshop, Illustrator, Premiere)

Prototyping: 3D Printer (FDM & SLA), Laser Cutter, Mill, Lathe, Waterjet, Vacuum Forming, Arduino

Certifications: National Registry of Emergency Medical Technicians (E3153737), California EMT (E108835)

PROFESSIONAL EXPERIENCE

Medtronic

Biomedical Engineer Summer Associate, Atrial Fibrillation Solutions

Jun 2017 – Aug 2017

- Designed and tested a modular *in vitro* test apparatus that leverages MRI/CT scans from previous clinical trials to support validation of next generation cryoablation technologies.
- Conducted stakeholder interviews to understand product life cycle from R&D to FDA approval.
- Abstract accepted as poster presentation at the 2017 Medtronic Science & Technology Conference.

Northwestern University

Teaching Assistant, DSGN 308: Human-Centered Product Design

Jan 2017 – Mar 2017

- Mentored undergraduate students through the human-centered design process from user research to prototype development.
- Lectured on problem definition, prototyping, and usability testing based on project proposals.

Niagara Bottling

Research and Development Intern

Jun 2015 – Aug 2015

- Designed, prototyped, and tested 3D printed water bottle designs to improve bottle strength.
- Reverse engineered and modified parts to support ongoing bottle development.

SELECTED PROJECTS

Harley-Davidson | Product Design Strategy

Mar 2017 – Jun 2017

- Conducted consumer research to understand the buying habits and values of millennials, including a survey of 750+ individuals on an online trading forum.
- Developed a feasible, desirable, and viable strategy with multiple touchpoints for the future of Harley's used bike sale platform.

Vertō | Healthcare UX Design

Jan 2017 – Mar 2017

- Interviewed Emergency Room stakeholders to determine how to seamlessly integrate a new retinal analysis technology into the existing ER workflow.
- Utilized an agile design process to iteratively prototype and test a simple, intuitive interface capable of meeting the needs of various stakeholders within their medical scope of practice.

Formula SAE Electric | Systems Engineering, Business

Jan 2016 – Jun 2016

- Supported design, fabrication, rules compliance, and testing of Caltech's first electric racecar to ensure crew and driver safety.

One Arm Wheelchair Drive | Healthcare Mechanical Design, Product Design

Jan 2016 – Jul 2016

- Designed and prototyped a modular attachment for a manual wheelchair for use by individuals with hemiplegia.
- Rehabilitation Engineering and Assistive Technology Society of North America Student Design Competition 2016 Finalist.