

Sheila Lo

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EDUCATION

Northwestern University (Evanston, IL)

M.S. Engineering Design Innovation

Sept 2016 – Dec 2017

California Institute of Technology (Pasadena, CA)

B.S. Mechanical Engineering

Oct 2012 – Jun 2016

SKILLS

Design: Ethnographic Research, User Testing, Journey Mapping, Storyboarding, Paper Prototyping, Wireframing

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

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

Programming: HTML, CSS, C, Python

Languages: Cantonese (Native), Mandarin Chinese (Limited Working Proficiency)

PROFESSIONAL EXPERIENCE

Northwestern University

Teaching Assistant, DSGN 308: Human-Centered Product Design

Jan 2017 – Mar 2017

- Mentored students through the design process from needfinding to prototype development.

California Institute of Technology

Teaching Assistant, ME 50b: Experiments and Modeling in Mechanical Engineering

Mar 2016 – Jun 2016

- Guided students through four experiments: tensile testing, beam bending, analysis of thin-walled pressure vessels, and digital image correlation (DIC) of strain fields.

Niagara Bottling, LLC

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

Vertō, The Garage @ Northwestern Startup | Interaction Design

Jan 2017 – Mar 2017

- Utilized an agile design process to prototype a digital interface for an emerging retinal analysis technology to diagnose vestibular neuritis in the Emergency Room.

Spotlight on Allergies | Service Design

Jan 2017 – Mar 2017

- Developed a scalable service to support incoming college students with food allergies in collaboration with Dr. Ruchi Gupta.

Procter & Gamble | Product Design

Sept 2016 – Dec 2016

- Designed an innovative prototype for an existing consumer packaged good. Leveraged a new technology to resolve tensions and improve user experience.
- Selected to receive Intellectual Property award for project deliverables.

One Arm Wheelchair Drive | 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 (RESNA) Student Design Competition 2016 Finalist.

CERTIFICATIONS

California Emergency Medical Technician, Los Angeles County (E108835)

National Registry of Emergency Medical Technicians (E3153737)