

# 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)