

# KAITLYN KO

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## EDUCATION

**Northwestern University - GPA: 3.80 | Graduated December 2020**

Manufacturing and Design Engineering (MaDE), Mechanical Engineering (MechE)

## EXPERIENCE

**Product Design Engineer - Sibel Health (current)**

- + Improving adhesive designs for wearable sensors (both ECG and PPG)
- + Designed (from sketch to CAD) and fabricated (modified designs for 3D printing and injection molding) enclosure for RPM charging station
- + Re-designed packaging for core product

**Product Designer - Square One PD (Fall 2020)**

- + Designed and fabricated a looks-like prototype for a bee-medicating device
- + Developed an enclosure design that embodies client vision, prioritizes user experience, and accommodates electronic components
- + Prototyped concepts with wood fabrication, 3D printing, and laser cutting

**Product Development Contractor - mHUB Chicago (Summer 2020 - Fall 2020)**

- + Designed and fabricated a laser-cut docking station for contact tracing devices
- + Re-designed a mace canister holder for improved usability and manufacturability (injection molding); creating a functional, 3D printed prototype
- + Laser cut and hand-assembled parts for 2000 PPE masks

**MechE Capstone: Precious Plastic NU - Compass Group (Fall 2019 - Winter 2020)**

- + Collaborated with 7 other students to design & fabricate an efficient, easy-to-use process for the recycling and reuse of plastic waste on campus
- + Lead the sub-team focused on developing a device & process for cleaning contaminated plastic

**Design Intern - Northwestern University Segal Design Institute (Summer 2019)**

- + **Diabetes Kit:** designed and fabricated 30 diabetes kits meant to train newly diagnosed diabetes patients
- + **Shop Safety Modules:** created modules for machines in the manufacturing shop to be used by students as an introduction to safety and operational procedures
- + **Dysphagia Cup:** improved upon the Provale Cup, an existing market solution for administering metered amounts of liquids to patients with dysphagia

**MaDE Capstone: Smart Penguin Egg - Shedd Aquarium (Winter - Spring 2019)**

- + Collaborated with 4 other students to design a "smart egg" device for Shedd Aquarium that collects relevant data from penguin eggs throughout incubation
- + Primarily contributed in designing the outer housing and internal organization

**Mechanical Engineering Design Intern - Webb deVlam (Spring - Summer 2018)**

- + Worked on all aspects of the design process - sketch exploration, 3D modeling, rendering, prototyping
- + Learned to prototype on the fly and execute deliverables efficiently and effectively

**Personal Website - [kaitlynko.com](http://kaitlynko.com) (Summer 2017)**

Designed and created a static, multi-page portfolio website using HTML & CSS

## ACTIVITIES

**Peer Adviser (Spring 2019 - Spring 2020)**

Facilitated dialogue and supported students throughout their transition into NU

**The Studio (Winter 2019 - Spring 2020)**

Started a club with 5 other students to foster the Northwestern design community

**Peer-Guided Study Group Facilitator (Fall 2017 - Winter 2019)**

- + Facilitated study groups for students enrolled in the Engineering Analysis sequence
- + Equipped students with helpful strategies and resources to succeed in the courses

## TECHNICAL SKILLS

SolidWorks, Keyshot, NX, ArtiosCAD, 3D Printing, laser cutting, CAM, HTML5, CSS, Python