

# LILLIAN CHU

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## EDUCATION

### Northwestern University

*Bachelor of Science in Manufacturing and Design Engineering*

*Minor in Environmental Policy & Culture*

Evanston, Illinois

Expected June 2022

- **GPA:** 3.4
- **Major GPA:** 3.7
- **Honors:** Dean's List
- **Relevant Coursework:** Human-Centered Product Design, UX Design, Industrial Design, Electronics Design, Mechanical Design & Manufacturing, Design for Manufacturing, Design for Assembly, Operations Engineering & Management, CAD/CAM

## Technical Skills

**Software:** SolidWorks, Siemens NX CAD/CAM, Autodesk Inventor, Figma, Adobe Illustrator, Photoshop, Keyshot  
Rendering, Microsoft Excel, Squarespace, AirTable

**Programming:** Proficient in MATLAB, Python, HTML/CSS, AMPL

## RELEVANT EXPERIENCE

### Capstone Project on Personal Safety Devices

Evanston, IL

*Project Manager*

September 2021 – June 2022

- Collaborated with a 5-person team; (first phase) conducted Root Cause Analysis through benchmarking existing products, Intellectual Property analyses, and user interviews to find unmet needs and opportunity areas
- (second phase) Conducted thorough research and conjoint analysis and created low-fidelity mockups with various human-centered design iterations. Currently developing a works-like prototype and a looks-like prototype.
- Planned quarterly project schedule with Gantt Chart; delegated and organized individual team member responsibilities with Responsibility Assignment Matrix

### Injection Molding and Mold Design Manufacturing

Evanston, IL

*CAD/CAM Lead*

January 2022 – March 2022

- Manufacturing plastic toy from start to finish; designed part using CAD software, transferred part geometry to core and cavity mold for the part, and rendered the manufacturing program for parts.
- Machined mold halves from mold blanks on CNC Machine using generated G-Code from CAM program; utilized design for manufacturing and design for assembly after injection molding with a snap fit of parts.

### MagneShade

Evanston, IL

*Prototyping Lead*

September 2020 – March 2020

- Partnered with a 5-person team to conduct thorough research, user testing and prototype development with a human-centered design focus for a removable blackout window shade
- Conducted patent searches on Derwent World Patents Index, user testing with benchmark products, journey maps to identify stakeholders, and business models to further develop the product
- Created an efficient value chain by optimizing materials and decreasing lead time by 67% and developed business model

## LEADERSHIP

### Northwestern Crew Team

Evanston, IL

*Racing Coordinator and Coxswain*

September 2018 – June 2022

- Organized competitions and travel throughout the United States for 50+ rowers. Planned cost-effective lodging arrangements and detailed daily itineraries
- Practiced 6 days a week: developed strong leadership and decision-making skills; act as coach, motivator, and race strategist performing under competitive and high-pressure situations; competed across U.S., gold medalist at the Illinois Collegiate Rowing Invitational, Chicago Sprints Regatta, bronze medalist at the Midwest American Collegiate Rowing Association

## ADDITIONAL

**Activities:** Society of Women Engineers, Tennis, Trivia, Crossword Puzzles

**Interests:** Plant Keeping, Drums, Space, Reading

**Provisional Patent:** 63337124 Patent Pending (Operator Presence Control Safety Switch)