

# Ginger Lau

ginger.lau@berkeley.edu

(347) 476-0340

gingerlau.com

## EDUCATION

---

**University of California Berkeley College of Engineering** | Berkeley, CA Expected May 2024

*Master of Engineering in Mechanical Engineering – Concentration in Product Design*

- Relevant Courses: Human-Centered Design Methods, Web Design, Finite Element Methods

**The Cooper Union for the Advancement of Science and Art** | New York, NY May 2023

*Bachelor of Engineering in Mechanical Engineering* **GPA: 3.75/4.00**, graduated Magna cum laude

- Relevant Courses: Computer-Aided Engineering (CAE), Advanced Product Development, Aircraft Engineering, Mechatronics, Manufacturing

## SKILLS & COURSEWORK

---

**Engineering:** Python, MATLAB, Arduino, C, SolidWorks, Fusion 360, Rhinoceros3D, AutoCAD, OnShape, Altair Hypermesh

**Design:** Adobe Suite (Illustrator, Photoshop, Xd), Graphic & Poster Design, SEO Optimisation, Photography, Microsoft Office

## LEADERSHIP

---

**ReCoop PLA Plastic Recycling Center** Mar 2022 – Present

*Project Lead*

- Leveraged \$7,500 grant to develop the first PLA waste recycling system at The Cooper Union Civics Projects Lab
- Created promotional [website](#) and posters using Adobe Suite and Cargo (CSS) to generate engagement with Cooper Summer STEM outreach program and spread awareness about sustainability initiative.

**Sumo Robot Design and Construction** Jan 2022 – May 2023

*Competition Project Lead*

- Designed and fabricated lightweight aluminium shell using engineering thinking process, Fusion360, and FabLight
- Integrated IR sensors, circuitry, and coding for strong game strategy using Microchip Studio and MPLAB

**Cooper Union Dept. of Information Technology** | New York, NY 2019– 2023

*Student Manager*

- Improved lab equipment reliability by establishing protocols for 20+ student workers
- Implemented and developed schoolwide remote COVID-19 learning procedures

## EXPERIENCE

---

**IDC Foundation ACE Lab** | New York, NY 2021– 2023

*Laboratory Technician*

- Operated FDM and SLA printers, metal laser cutters, CO2 lasers, vacuum form machines, mills, and CNC routers
- Streamlined manufacturing processes by optimizing 3D files for fabrication on wood, metals, and plastics for 450+ students

**Cooper Union Maker Space** | New York, NY 2021– 2023

*Laboratory Technician and Event Organizer*

- Redesigned an inclusive maker community and home base for ideation by assisting students across disciplines in optimizing designs and streamlining manufacturing
- Organized community events and led the creation of hands-on courses to engage students in creative coding, 3D printing, and interdisciplinary collaboration

## Awards

---

**The Cooper Union Mechanical Engineering** (Service to the Department Award) May 2023

**Vertical Flight Society Design-Build-Flight Competition** (Preliminary Design Report Award) February 2023

**NREL Solar Decathlon** (Finalist Mixed-Use Multi-Family Building Division) March 2021