

MELODY M. CHU

Maker • Designer • Engineer

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EDUCATION

Carnegie Mellon University

GPA: 3.7/4.0 | Dean's List '22 – '24

Bachelor of Science May 2025

Mechanical Engineering

Minors

Design

Human-Computer Interaction

SKILLS

Adobe CS

Figma

Solidworks

3D-Printer

Laser Cutter

CNC

Hand Tools

Manual Mill

Lathe

Electronics

Sewing

Wireframing

Siemens NX

MATLAB

Soldering

HTML

CSS

Python

ACTIVITIES

Dancer's Symposium

Society of Women Engineers

Moneythink

K-Pop Dance Club

User-Experience Association

DESIGN & LEADERSHIP EXPERIENCE

CMU Moneythink Rebrand

Aug 2024 - Present

Director of Design

- Rebranded club with new logo, fonts, and cohesive brand identity to improve visibility and alignment with its goals
- Designed templates, posters, and social media content to effectively promote events and outreach efforts
- Recruited and led team of student designers, overseeing creative direction for social media and communication

Pet Simulator - 1st Place Hack112

Apr 2022

User-Interface (UI) Design & Illustration Lead

- Designed and illustrated all visual elements of game
- Collaborated on game design and programming
- Presented game at showcase and won 1st place among 100+ participants for its creativity and design

PROFESSIONAL EXPERIENCE

Relativity Space, Inc.

May 2024 - Aug 2024

Vehicle Mechanisms Intern

- Reverse-engineered sensors, creating documentation and prototypes to assess in-house manufacturability
- Designed and prototyped a thruster installation tool with custom clamps, backed by hand calculations and CAD.

Bimotal, Inc.

May 2023 - Aug 2023

Mechanical Design Intern

- Redesigned battery pack using UX research, sketches, and CAD, aligning with brand, market, and technical specs
- Built test rig to measure sound at various torques/speeds

Morewood Gardens Makerspace

Sep 2022 - May 2023

Attendant

- Assisted patrons with 3D printers, sewing machines, and other tools, ensuring safe use
- Provided guidance for creative projects and troubleshooting

Atmospheric Particle Studies Center

Jun 2022 - Aug 2022

Student Researcher

- Integrated motion control and electronics for filter system
- Fabricated custom mounts and machine hardware

NASA Goddard Space Flight Center

Jun 2020-Aug 2021

Electromechanical Systems Engineering Intern

- Researched and developed autonomous robotic navigation experiments using machine learning in MATLAB