BRANDON WONG

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OBJECTIVE

Mechanical engineer with research and international internship experience, seeking summer 2024 internships

EDUCATION

Bachelor of Mechanical Engineering, Massachusetts Institute of Technology — Expected 2025
Relevant Coursework: Robotics, Dynamics and Controls, Mechanics of Materials, Electronic Systems, Thermal fluids, Fundamentals of Programming

SKILLS

Technical Skills	CAD, rapid prototyping, Arduino, Python, Photography and video making
Soft Skills	Public speaking, event planning and leadership
Languages	English (native), Spanish (fluent), Japanese (fluent), Mandarin (elementary)

WORK AND RESEARCH EXPERIENCE

Hardware intern — June 2023 - August 2023
TeamLab — *Tokyo, Japan*

- Designed an autonomous charging system and algorithm for uniquely marking continuously flying drones
- Researched methods and proposed applications for manufacturing origami-like foldable 3d printed structures

Undergraduate researcher — June 2022 - December 2022
MIT Human Computer Interaction Engineering Laboratory — *Cambridge, MA*

- Developed a 3d printed capacitive rotary encoder, ran technical evaluations, co-authored the resulting paper accepted by the Association of Computing Machinery
- Developed a means of re-configurable circuits by levitating conductive particles, co-authored the research proposal and presented at the ACM symposium of User Interface Software and Technology. (Demo video)

Undergraduate researcher — January 2023 - present
MIT Computer Science and Artificial Intelligence Laboratory — *Cambridge, MA*

- Developed folding algorithms to automate and improve efficiency of origami design
- Created various web applications to implement algorithms for public use

PERSONAL PROJECTS

Origami artwork portfolio Coded a personal page from scratch and uploaded some of my best origami artworks from the past few years. (Portfolio) Recipient of internationally recognized Joisel Award .

Grid folder Designed a device for origami purposes that can fold evenly spaced creases about 4-5 times faster than folding by hand. (Demo video)

Reconfigurable folding circuits Prototype for a circuit printed on paper that rewires itself with different folding patterns. (Demo video)

EXTRA-CURRICULAR ACTIVITIES

- President of OrigaMIT origami club, leading weekly meetings and hosting a national-scale annual origami convention with 180+ attendees
- Active member and leader in MIT's Asian Christian Fellowship, organizing and leading the weekly large group fellowship gatherings
- Vocal percussionist in MIT's Cross Products Christian a capella group