

# Brian Wu

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## EDUCATION

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**University of Maryland**, College Park, MD

**Expected Graduation: May 2026**

- B.S. Computer Engineering
- Honors College: Design, Cultures, and Creativity (DCC)
- Startup Shell: Product Design & Engineering

## EXPERIENCE

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**Research & Design Assistant**

October 2025 — Present

*Professor Romel Gomez*

- Collaborated with professor on assorted research and engineering projects, tackling and solving complex functional challenges across multiple mechanical and electromechanical domains.
- Engineered an autonomous catch-and-release system for a drone landing platform, integrating linear actuators to power a secure magnetic deployment and retrieval function.
- Pioneered a zero-tolerance docking system, anchoring a rotating core and custom magnetic drone legs to enable successful capture and magnetic interlock from any landing angle.

**Restaurant Design Intern**

January 2025 — December 2025

*New Dim Sum Kingdom*

- Create graphics and runs social media page to effectively promote and advertise the restaurant's deals and updates as they occur
- Work directly with managers and owners to facilitate best interests of the restaurant through the social media page

**Graphic Designer**

June 2024 — Present

*Bethel College Fellowship*

- Produced graphics biweekly for a college community group, coordinating with team members for consistent branding.

**Taiwanese American Student Association (TASA)**

May 2023 — May 2024

*Co-Graphic Designer*

- Elevate aesthetic of social network pages; work in a team responsible for the design and posting of 10+ graphics/month ranging from cultural, social, and informational which receives engagement from 2000+ students
- Serve on a panel of 27 board members to organize events that spread Taiwanese culture to students on campus

**Design, Cultures, & Creativity Honors Program**

September 2022 — June 2024

*Student Council Board Member*

- Foster an inclusive and welcoming environment to build community within the program through organizing collaborative activities
- Update Director on community inclusivity and wellbeing through bimonthly meetings with nine other board members

## PROJECTS

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**DCC Wars: Campus Lightsaber Battle Short Films**

October 2022 — April 2024

- Managed production, choreography, and technical effects for two lightsaber battle videos, reaching 800+ views and enhancing audience immersion.
- Explored narrative structure in order to create a cohesive storyline and plot between the two films.

**Highborn Lightsaber Design**

July 2020 — February 2021

*ThePachStore*

- Spearheaded the design of 'The Highborn' lightsaber, taken into mass production with 4,000+ units sold worldwide.
- Reverse-engineered existing lightsaber systems, including NeoPixel PCB frameworks, accelerometer-based motion sensing, SD-card sound playback, and custom speaker modules.
- Iterated through multiple prototypes, applying manufacturing techniques to balance aesthetics and durability.

## SKILLS & RELEVANT COURSEWORK

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**Digital & Visual Design:** Adobe Illustrator, Photoshop, Premiere Pro, Figma, Canva, Paint.NET, Audacity, Generative AI Prompting, React, Node.js, WebSocket, UI/UX Design, and Multimedia Production.

**3D & Spatial Design:** Blender, Fusion 360 (CAM/FEA), SolidWorks, Inventor, GD&T, DFM (Design for Manufacturing), PrusaSlicer, 3D Printing (FDM/SLA), Laser Cutting, and Product Visualization.

**Creative Technology & Fabrication:** Python, Arduino, MATLAB Data Visualization, Java, C, CNC Machining, Soldering, Sewing, Automotive Painting, Docker, Selenium, Ubuntu (Linux), and Excel.