

# Jaclyn Helene Chiou

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Portfolio: [jaclynchiou.com](https://jaclynchiou.com)

## EDUCATION

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<b>The University of Texas at Austin</b> <i>Austin, TX</i>	Bachelor of Science, Mechanical Engineering Design Strategies Certificate GPA 3.81/4.00	August 2025
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## WORK EXPERIENCE

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**Apple – Product Design Intern** Spring 2024 - Summer 2024

- Developed new designs accounting for reliability, manufacturability, repairability, and impact on existing components
- Constructed and implemented design changes for both proof of concept and future development applications
- Analyzed FEA and physical testing results to validate designs and propose next steps
- Led failure analysis following reliability testing to determine root cause and implement necessary design modifications
- Worked on iPhone PD team to design future products while collaborating with materials, manufacturing, and reliability teams

**Evolution Spine – Product Development Engineering Intern** Summer 2023

- Fabricated new designs and manufacturing prints for different surgical instruments on Solidworks
- Inspected the competitive spinal market and proposed a product plan based on my research for future development
- Tested prototypes prior to production to identify design issues and completed verification of production parts
- Collaborated with R&D team: providing design feedback, performing risk-analysis, ensuring FDA-compliance, and improving GD&T

**Texas Inventionworks – Student Staff Member** Spring 2023 - Present

- Advise, aid, and troubleshoot engineering projects and research conducted by fellow students.
- Perform daily maintenance on rapid prototyping machines such as 3D-printers, laser cutters, and more

## ACADEMIC PROJECTS

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**Idea to Product: Assistive Makeup Brush** Fall 2022

- Researched, designed, and prototyped an ergonomic makeup brush for people with low grip strength over a semester
- Interviewed stakeholders and performed clinical trials to receive authentic feedback and research for our product
- Awarded first place after presenting our final product to a panel of entrepreneurial and design professionals

**CREATE-A-THON Competition** Spring 2022

- Designed an artistic tree-like lamp with kinetic butterflies for the therapeutic use of children with insomnia.
- Constructed a 2ft-by-2ft-by-2ft tree sculpture out of laser cut wood panels with artificial leaves, fairy lights, and moving butterflies in a 16-hour time restriction
- Built a pulley system through tree branches using string connected to micro servos to actuate butterfly movement
- Awarded 1st Place for Create-a-thon due to the artistic lamp's functionality, design, complexity, and originality

**Engineering Design Fidget Spinner Project** Fall 2021

- Composed and modeled a custom fidget spinner, fidget spinner molds, and bearing caps on Solidworks
- Manufactured components of fidget spinner by generating a CAM process, CNC machining Aluminum molds, injection molding with Polypropylene, and 3D-printing bearing caps

## LEADERSHIP EXPERIENCE

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**American Society of Mechanical Engineers (ASME) – Treasurer (23-24); Community Affairs Officer (22-23)** Fall 2021 – Present

- Planned, managed, and assisted a 900+ member student organization as part of the officer team
- Coordinated transactions for 3-4 events per week and managed a \$31K budget to support organization's initiatives for the year
- Led the organization to win Outstanding Student Organization Award and Best Service Org Award through service contributions

## TECHNICAL SKILLS

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**CAD:** Solidworks, NX, Fusion 360, Inventor, nTop | **Coding:** Python, MATLAB, JavaScript

**Hardware:** 3D-Printer, Laser Cutter, Manual Lathe, Manual Mill, Soldering