Jaclyn Helene Chiou

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Portfolio: jaclynchiou.com

EDUCATION

The University of Texas at Austin — Bachelor of Science, Mechanical Engineering — May 2025
Austin, TX — Design Strategies Certificate
GPA 3.82/4.00

Related Courses: Idea to Product (I2P), Engineering Design & Graphics, Intro to Design Thinking, Thermodynamics, Mechatronics, Dynamics, Machine Elements, Fluid Mechanics

WORK EXPERIENCE

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

- Fabricated new designs and manufacturing prints for different surgical instruments on Solidworks
- Analyzed 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

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
- Worked in a multi-disciplinary team to articulate an economically viable solution that matches a problem
- 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

American Society of Mechanical Engineers (ASME) – *Community Affairs Officer (Spring 2022 – Present)* — Fall 2021 – Present

- Plan. manage, and assist an 800+ member student organization as part of the officer team
- Coordinated multiple volunteering events to engage the community through service

Women in Engineering Program (WEP) – *Peer Assistance Leader (PAL)* — Fall 2022 – Present

- Mentored incoming first-year, new transfer, and international engineering students throughout the year
- Created a welcoming community for students through navigation aid, weekly communication, and open counsel.

TECHNICAL SKILLS

CAD Software: Solidworks, Fusion 360, Inventor, nTop
Coding: Python, MATLAB, JavaScript
Hardware: 3D-Printer, Laser Cutter, Soldering