

# JULIA CHOPPIN

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Bethesda, MD

## EDUCATION

**University of Michigan, Ann Arbor, MI**

May 2025

*Bachelor of Science in Mechanical Engineering*

GPA 3.93, William J. Branstrom Freshman Prize, Dean's List, University Honors

Relevant Coursework: \*Design and Manufacturing I, \*Solid Mechanics, \*Dynamics and Vibrations, Introduction to Computers and Programming, Introduction to Engineering: Design in the Real World

**University College Dublin, Ireland**

May 2022-July 2022

*Big 10 Stem Program*

Completed coursework in Physics: Electricity and Magnetism and Irish History

Participated in cultural and historical excursions to understand intricacies of Irish culture

## EXPERIENCE

**Michigan Science Learning Center, Physics Tutor**

August 2022 - Present

- Planned & led weekly 2-hour tutoring sessions for Physics 140 (Mechanics)
- Corresponded with group members on a weekly basis to convey important material

**Adept Physical Therapy, Patient Advocate**

August 2020 – August 2021

- Headed insurance verification, communicated coverage and benefits to over 100 patients
- Acted as a liaison between physical therapy clinic and primary care doctors

**US Nuclear Regulatory Commission, Summer Intern**

July 2019

- Researched past nuclear accidents, visited the NRC's accident command center
- Compiled notes and attended meetings regarding the decommissioning of the Pilgrim Nuclear power plant

## PROJECTS AND ACTIVITIES

**Michigan Neuroprosthetics, Mechanical Sub-team Member**

Jan 2021 - Present

- Designed a modular prosthetic arm using 3D modeling and CAD in a 4 person team
- Researched and analyzed different designs for mechanics inside the hand.

**Design in the Real World, Portable and Discreet Heating Device**

Jan 2022 - April 2022

- Designed a discreet, wearable device to alleviate menstrual cramps in a 5 person student team
- Built and tested a prototype 50% of users indicated they would buy and use

**University of Michigan Computer Kickstart Program**

August 2021

- Learned the basics of Python through the intensive 9-10 hours a day program
- Completed Hackathons and a cumulative project

## LEADERSHIP ROLES

Michigan College of Engineering Student Government Association, *Senator*

2022-present

Sigma Kappa Sorority, *Diversity & Inclusion Committee; Wellness Committee*

2021-present

Deca Business Club, Walt Whitman HS Chapter, *Fundraising Vice President*

2017-2020

## TECHNICAL SKILLS

*Computer:* Experienced in Solidworks, Inventor, AutoCAD, Autodesk Fusion, MATLAB, C++. Familiar with Python.

*Manufacturing:* Mill and Lathe Trained