

# Jennifer Wang

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## EDUCATION

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### University of Michigan | Ann Arbor, MI

*Bachelor of Science in Electrical Engineering, GPA: 3.92/4.0*

*Expected Graduation, Dec 2025*

Relevant Coursework: Intro to Circuits, Programming and Intro Data Structures, Signals and Systems,

Engineering Electromagnetics, Intro to Semiconductor Devices

Awards/Honors: Dean's List, William J. Branstrom Freshman Prize (top 5% of freshman class), WISE RP

Summer Scholar Award (\$5000 Summer Research Stipend), Reynolds Scholarship in Electrical Engineering

## SKILLS

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**Programming:** Proficient in C/C++; Familiar with Python

**Software:** Proficient in MATLAB, Arduino; Familiar with LTspice, KiCAD, Autodesk Fusion 360

**Other:** Proficient in Soldering, Digital Multimeter, Oscilloscope, Signal Generator; Familiar with VS Code, Git, Embedded Linux

## EXPERIENCE

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### SpaceX | Redmond, WA

*May – Aug 2024*

*Incoming Starlink Engineering Intern*

### Michigan Mars Rover Team | Ann Arbor, MI

*Sept 2022 – Present*

*Power Subteam Lead (23-24)*

- Designs and manages electrical box for optimized power distribution and accessibility of components
- Oversees power budget and development of custom battery to meet power requirements during competition missions
- Developed and executed plans for testing battery's performance and electromagnetic interference
- Leads weekly subteam meetings to distribute tasks and train members on electrical tools

### University of Michigan Department of Surgery | Ann Arbor, MI

*Sept 2022 – Sept 2023*

*Potkay Lab Undergraduate Research Assistant - Dr. Joseph Potkay, Andrew Zhang*

- Programmed microcontroller to automate engraving of microfluidic channels, leading to reduced manufacturing time of prototype microfluidic artificial lungs
- Researched methods to minimize debris buildup on engraved silicone (PDMS) using different materials
- Built a microfluidic artificial lung testing system, integrating pumps, sensors, and a data logger, with precise motor control for efficient data acquisition
- Published second-author abstract in ASAIO Journal

### Women in Science and Engineering Residence Program | Ann Arbor, MI

*Aug 2022 – Present*

*Peer Mentor (23-34)*

- Mentors a group of four first-year students to help them effectively navigate their college experience
- Plans and hosts events to promote diversity and inclusion within the learning community

## PROJECTS

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### Computer Vision

*Sept 2023*

*EECS 280: Programming and Intro Data Structures*

- Created an image resizing program using a seam-carving algorithm

### Wildfire Detection & Alert System

*Jan – April 2023*

*ENGR 100: Solar Energy and Self-Powered Wireless Systems*

- Designed and built a solar-powered fire detection system that flashes an LED panel and transmits a RF signal when smoke is detected
- Modeled in AutoCAD and programmed using Arduino