

# Priya Soneji

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## EXPERIENCE

### SpaceX - Mechanical Engineering Intern

May 2024 - August 2024

- Responsible engineer for the development of a segment of the Starlink Mini dish production line
- Designed two full robotic mechanisms to automate a segment of the line that would run for millions of cycles
- Worked through designing two iterations along with testing and validation of those systems
- Conducted analysis on pneumatic loads and forces associated with automated movements

### Tesla - Mechanical Engineering Intern

January 2024 - May 2024

- Worked on the drivetrain and gearbox for various Tesla vehicles
- Designed component test fixtures and building prototype motor components
- Designed an automated system to inspect and record states of differential units for better documentation during development and testing

### Zipline - Mechanical Engineering Intern

May 2023 - August 2023

- Designed and tested various mechanical components on the new generation drone for the company as part of the Avionics team
- Developed 16 unique injection molded parts and collaborated with multiple stakeholders to understand and meet the engineering requirements over multiple design iterations

### Boston Scientific – Mechanical Engineering Intern

May 2022 - August 2022

- Ran experiments to define a process to automate the production of catheter position sensors
  - Developed an engineering solution to decrease production time to 1/10 of the original time while decreasing scrap
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## RESEARCH AND EXTRACURRICULARS

### Georgia Tech Labs - Researcher

December 2019 - Present

- Bhamla Lab (Joined in 2019) - Conducting lab-funded research on the trajectories and behavior of microorganisms with a custom-designed tracking microscope.
  - Trackoscope: A low-cost, open, autonomous tracking microscope for long-term observations of microscale organisms - doi.org/10.1371/journal.pone.0306700 - first author
- RoboMed Lab (Joined in 2022) - Developing a robotic arm to aid in the development of lab devices and aiding graduate students in their development of steerable electrodes for neurosurgery
  - Tutorial: Nitinol and Tungsten Tendon Attachment Techniques for Steerable Continuum Robots - <https://link.springer.com/content/pdf/10.1007/s41745-024-00455-3.pdf> - second author

### Invention Studio - Makerspace Prototyping Instructor

August 2021 - Present

- Helping students make their ideas and prototypes using various tools including 3D printing, laser cutting, water jet, metal-working, and woodworking. Working on hobby projects as well like billiards playing robots.
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## EDUCATION

### Georgia Institute of Technology (B.S)

August 2021 - May 2025

- Major: Mechanical Engineering, Minor: Robotics
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## SKILLS

**Programming Languages:** Python, Java, C++, MATLAB

**Software:** Solidworks, NX, 3DX (Catia), Ansys, Grafana

**Manufacturing:** 3D Printing, CNC Milling, Manual Milling, Laser, Waterjet, Metalworking, Soldering

**Relevant Coursework:** Machine Design, Mechatronics, CAD/FEA, System Dynamics, Heat Transfer