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

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.

EDUCATION

Georgia Institute of Technology (B.S) *August 2021 - May 2025*

- Major: Mechanical Engineering, Minor: Robotics

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