

# Diya Sheth

Ithaca, NY | 516-450-8346 | [ds2457@cornell.edu](mailto:ds2457@cornell.edu)

## EDUCATION

### Cornell University, College of Engineering

Major in Mechanical Engineering; Minor in Entrepreneurship

Ithaca, NY

August 2024 - May 2028

## RESEARCH EXPERIENCE

### Rockefeller University Cross & Rout Labs

New York, NY

Undergraduate Researcher & Intern | Prof. Frederick R. Cross (Cell Biology & Genetics and Genomics)

May 2025 - August 2025

- Enhanced a yeast display system for nanobody discovery to develop diagnostics and therapeutics against beta coronaviruses.
- Enhanced library expression fidelity and yield by addressing plasmid instability, ensuring more consistent screening results.
- Conducted wet lab research with yeast cells in different media and gained experience with standard biological lab procedures.

### Brookhaven National Laboratory

Upton, NY

Researcher & Mechanical Engineering Intern

July 2023 - August 2023

- Built a company plan for the next five years that was used when building the next detector on the Electron-Ion Collider.
- Communicated with hardware companies like Enerpac, etc., as prospective customers for the \$100M detector project.
- Created a proficient design for the hadron side of the Electron-Ion Collider end cap, providing accessibility to the user.

### Arduino-powered Robot Arm & Water Purity Sensor

Syosset & Bethpage, NY

Individual Researcher

September 2021 - June 2024

- Developed a rehabilitative robotic arm and dexterity measurement glove to improve motor function for stroke patients.
- Designed a circuit for a smart sensor to test drinking water for pH, turbidity, and dissolved oxygen with an LED alert system.
- Granted \$500 by SAAWA & NYTT, the LI Science Congress Honors Award, and the Robert Nelson Memorial Award.

## LEADERSHIP & EXTRACURRICULAR EXPERIENCE

### Cornell Assistive Technologies Project Team

Ithaca, NY

Builder | Designer | Engineering Subteam

February 2025 - Present

- Designing a Bluetooth-controlled clamp for a powered wheelchair user to empty a urinary drainage bag independently.
- Adapted toy cars for local children with disabilities, providing them with the opportunity for independent mobility and play.
- Learned how to combine mechanical engineering skills with healthcare to create wearable devices to directly help individuals.

### Startup Consulting Cornell

Ithaca, NY

Senior Vice President

October 2024 - Present

- Managed weekly GBody's, the client acquisition process, and redeveloped the branding of SCC, including the website.
- Worked with CyberSpara and Unibaio to create a business plan and find soft skills and workforce environment teaching gaps.
- Learned about potential business industries where I can apply my skills, as well as how to do casing for real-world interviews.

### Satakkitt

Syosset, NY

Co-founder | Chief Product Officer

December 2023 - Present

- Designed kits of flexible 3D pieces assisting Occupational Therapy Patients, senior citizens, and kids in stabilizing tremors.
- Accountable for finding manufacturing companies and efficient, eco-friendly packaging ideas, and designing 3D pieces.

### FIRST Robotics Competition Team

Syosset, NY & Bethpage, NY

Captain | Outreach Head | Mentor

September 2020 - June 2024

- Responsible for devising a competition strategy and designing & building the first-place robot at the regional competition.
- Served as lead presenter for the FIRST Impact Award, articulating team strategy to judges at 10-12 regional competitions.
- Mentored three middle school teams in STEM: Microchip Cookies, Bethpage RoboEagles, and South Woods Syosset.

## SKILLS, LANGUAGES, INTERESTS

- Leadership and public speaking through science research competitions, robotics events, business plans, and debates.
- Proficient in Python and Associate Level Certification in Solid Edge CAD Software; Fluent in Gujarati & English.
- Interests include biotech research, entrepreneurship, robotics, mechanical engineering, and impact-driven projects.