

Sumaiya Dharsi

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EDUCATION

Northeastern University, College of Engineering, Boston, MA

- Candidate for Bachelor of Science in Mechanical Engineering and Design, Expected May 2028
- GPA: 3.49/4.00
- Associations: Society of Women Engineers, Undergraduate South Asian Organization, Islamic Society (ISNU)
- Relevant Coursework: Cornerstone of Engineering 1 & 2, Statics, Thermodynamics, Designing Interactive Experiences, Making with Forms

Lake Highland Preparatory School, Orlando, FL

- High School Diploma, May 2024
- GPA: 4.20/4.00

SKILLS

- Programming Languages: C++, HTML, CSS, MATLAB
- CAD & Mechanics: SolidWorks, Arduino, 3D printing, Laser Cutting
- Spoken Languages: English (native), Chinese (conversational), Gujarati (conversational)

PROJECTS

Redesigning Tiffin

Personal Project, Fall 2025 to Present

- Redesigning a traditional multi-tier tiffin in SolidWorks to be microwave safe while preserving portability and stacking features, applying research and development methods to select materials, evaluate trade-offs, and optimize for safety and usability.

Flexir: Hand Physical Therapy Tool

Cornerstone of Engineering Project, Spring 2025

- Designed and prototyped a wearable rehabilitation device in SolidWorks with 3D-printed components, integrating Arduino sensors to track hand mobility and share progress data through MATLAB.
- Conducted and analyzed 10 hand-movement tests in MATLAB to validate sensor accuracy, refining functionality for at-home therapy use.

Wreck-It Ralph: Building Disaster

Cornerstone of Engineering Project, Fall 2024

- Developed an interactive educational game using C++, Arduino, and laser-cut components to introduce children to structural engineering concepts.
- Conducted user experience testing, gathering feedback to refine gameplay and improve learning outcomes.
- Gained practical prototyping and teamwork experience through collaborative, hands-on design.

EXPERIENCE

Northeastern University Department of Economics, Boston, MA

Office Assistant, September 2024 to Present

- Digitize and organize confidential student records, ensure accuracy, and comply with university data standards
- Support daily office operations by managing the front desk, assisting visitors, and maintaining inventory.

Umoja Outreach Foundation

Volunteer, Coach & Player, Summers 2015 to Present

- Coached and mentored two U12 girls' soccer teams to the semifinals.
- Coordinate logistics for opening and closing ceremonies for over 3,000 participants.

Digitech Printers, East Meadow, NY

Design Intern, Summer 2023

- Produced custom apparel designs for 7+ clients using heat press and vinyl application techniques.
- Gained hands-on exposure to design workflow and production processes in a professional print environment.

INTERESTS

- Painting, Volleyball, Soccer, Pottery, Drawing