

Sarah Ahmad

She/Her | New York, NY | (240) 854-9693 | sa7325@nyu.edu

EDUCATION

New York University, New York, NY 2022 - Present

Bachelor of Engineering, Mechanical Engineering, 2022

- Relevant Coursework: Calculus II, Physics I, Problem Solving and Programming I, Engineering Design Methods

Eleanor Roosevelt High School, Greenbelt, MD June 2022

- Science and Technology Program

EXPERIENCE

Student, **Exelon STEM Leadership Academy** July 2021 - Aug. 2021

- Explored the different branches and concepts of engineering with an emphasis on sustainability, resource management, energy efficiency, and environmental stewardship, through panels, lectures, and workshops.
- Collaboratively developed and presented a solution to mitigate climate change and global warming.
- Completed beginner level electrical, mechanical, chemical, and computer engineering projects.

Student, **Research Practicum**, Greenbelt, MD Sept. 2021 - June 2022

- Studied the importance of research and the approaches of experimentation, under a mentor.
- Independently applied the processes of the scientific method by planning, observing, collecting data, analyzing data, and deriving conclusions to write research papers on two individual projects (The effects of the location of construction sites on air quality and The effects of tree population and diversity on soil nutrient contents).

LEADERSHIP EXPERIENCES

Volunteer, **Greenbelt Forest Stewards** 2018 - 2022

- Worked with the City of Greenbelt to beautify the parks and lakes by cutting invasive ivy off of trees, sowing plants, pulling weeds, spreading mulch, and picking up litter.
- Directed groups of student volunteers to carry out tasks at parks across the city.

Mentor, **Science and Technology Students Society** May 2019 - Present

- Facilitated science, math, computer science, and engineering classes and clubs at a series of Greenbelt Schools.
- Tutored underclassmen, middle schoolers, and elementary schoolers in-person and online.

Founder, **Helping Hands Organization** March 2020 - Present

- Established a club to help students connect with each other, discover volunteer and career development opportunities, and give back to their community, during the time of lockdown.
- Fundraised and collaborated with other organizations, including the City of Greenbelt, Amnesty International, Key Club, Students against Destructive Decisions, and Cards4Kindness, to raise money and offer community service positions to students.
- Managed media and designed promotional flyers for workshops, volunteer tasks, and donation requests.

SKILLS

Conversational Urdu, Conversational Hindi, Conversational Punjabi, Python, Excel, CAD, Fusion 360, Arduino IDE

ACTIVITIES

EG 1004 Engineering Project Sept. 2022 - Dec. 2022

- Designed a CAD model of a text-to-speech hearing and visual aid headset using Fusion 360.
- Built a text-to-speech hearing and visual aid headset with a budget of \$100.

Forbes Idea Incubator - Audi Feb. 2023

- Developed and presented a solution for a problem solving competition focused on making electric vehicle charging stations safe, accessible, and inclusive.

HONORS

Martin Luther King Jr. Scholars Program 2022 - Present