Shreyashee Bhattacharjee

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Education

Bachelor of Science, Aerospace Engineering **May 2022**
University of Texas at Austin

Work Experience

Information Center Specialist, Call Center – *Digital Federal Credit Union* *May-Aug 2019*

- Personalized advice and products to best fit a customer's financial situation and priorities
- Problem solved customer inquiries, up to 50/day, by fully understanding their issues before educating them on their options and advising them on the best possible solution

Project Experience

Hands-Free Water Flosser - *Rapid Prototyping* *Aug 2017-Feb 2018*

- Invented a hands-free water flosser to provide a more efficient, effective method for flossing teeth and to assist individuals with impaired mobility by providing an easier flossing alternative
- Proved flosser to be significantly more efficient than a string flosser in a series of tests
- Developed prototypes on OnShape and ran fluid flow simulations on SolidWorks to analyze water flow pressure through the jets and to determine optimal jet angles
- Presented a Literature Review and Poster with methodology and final prototype at a STEM Conference at the Worcester Polytechnic Institute to faculty, industry professionals, and general public

Team Assistive Technology Project: Speed Eating - *Rapid Prototyping* *Feb-May 2018*

- Engineered a plate and bowl that effectively slows down the eating speed for a client struggling with speed-eating and eating independently
- Oversaw the CAD designing, data analysis, and rapid prototyping process within teams
- Collaborated with team members, mentors, and client in order to establish design goals to provide the most effective solution for client within budget and time constraints

Apps for Good Project: Swamster - *Team Web/App Development* *Feb-May 2018*

- Developed an Android app with a website backend for swim meet organizers to upload event spreadsheets that enables coaches and swimmers to view individual races and projected times
- Executed final app by delegating tasks to team members and adapting to members' varying abilities to ensure completion of the Minimum Viable Product

Doppler Radar: Team Project at MIT Lincoln Laboratory *(LLRISE Program)* *July 2018*

- Built a doppler radar in order to understand the science and mechanics behind radar technology
- Mentored by professional engineers from Lincoln Laboratory through their assistance in the development of the radar itself as well as through daily lectures and presentations
- Presented to MIT Lincoln Laboratory engineers and researchers about radar mechanics

Leadership Experience and Activities

Women in Entrepreneurship and Leadership Development Program *January 2020-Current*
Texas Aerial Robotics, Controls *Sept-Dec 2019*
Longhorn Rocketry Association, NASA Student Launch Initiative Deployment Team *Sept-Dec 2019*

Skills

Technical Skills

- Coding (in order of proficiency): Java, C, HTML, CSS, JavaScript, MatLab, Mathematica, Python, Swift
- Environments/Databases: Solidworks, OnShape, AndroidStudio, Firebase, SQL
- Hardware: Soldering, Circuitry

Professional Skills

- Strong leadership, interpersonal, communication, presentation, and public speaking skills