

Nazifa Tasnim Ahmad

BSc Graduate

Department of Biomedical Engineering
BUET



My Contact

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Software

- Microsoft Office
- Adobe Studio
- SOLIDWORKS
- MATLAB
- COMSOL Multiphysics
- HTML, CSS, JavaScript
- Vue JS, Nuxt JS
- C
- Arduino

Skill

- Leadership
- Communication Skills
- Organizational and Management Skills
- Research
- Analytical Skills
- Public Speaking
- Music
- Photography
- Videography and Video Editing
- Hosting and Anchoring

About Me

I am a driven and motivated biomedical engineer who likes to take initiative and thrives in overcoming challenges. Engineering, biology and healthcare have always been my major fields of interest. Furthermore, I am known for my organizational and leadership skills in my community.

Education Background

- BSc (Hons) CGPA: 3.41/4.00
Department of BME, BUET
Completed in 2022
- Higher Secondary Certificate (GPA : 5.00)
Talentpool Scholarship
Holy Cross College, Dhaka
Completed in 2016
- Secondary School Certificate (GPA : 5.00)
Holy Cross School, Dhaka
Completed in 2014

Awards and Achievements

First Runner Up

National Biology Olympiad

Runners Up (Extempore Speech)

Holy Cross Inter College Science Festival

1st Prize (culture and literature division)

Jatiya Shishu Puroshkar

Research Experience

2021–Present **Amino Functional Group Based Prophylactic Antibiotic Loaded Hydrogel for Surgical Site Infection in Spine Surgery**

- Prepared injectable hydrogels from Chitosan and Polydextran Aldehyde with loaded antibiotics
- Performed characterization studies on the prepared hydrogels
- Analyzed and compared the release kinetics of different antibiotics from the hydrogels

Academic Projects

2019	Developing a Web Application for digitalization of ICU Communication system <ul style="list-style-type: none">• Collected data from critical care units to identify current problems in the system and identified the need of a complete communication system for ICUs• Built a web application using JavaScript (Vue JS, Nuxt JS) and Firebase• The web application featured integrated database, communication system and different, easy-to-use user interfaces for the patients' attendants and the medical service providers
Presentation GitHub Link	
2018	Developing a Low Cost, User Friendly Nebulizer: <ul style="list-style-type: none">• Designed and 3D printed the aerosolizing chamber of a nebulizer• Designed a timer unit for automated switch off of the device after desired amount of time using Arduino
Presentation Report	

Leadership Experience

President

BUET Film Society

May 2019 – November 2021

I managed the club for more than two years, organized and conducted various online and offline seminars and workshops. I maintained contact with the other clubs in my university and other universities as well.

Asst. General Secretary

BUET Film Society

July 2018 – May 2019

During my run as assistant general secretary of the club, I aided in running the logistics of the club. I also worked as a crew in multiple short film productions

Publication Secretary (Design)

Murchhona: BUET

May 2021 – May 2022

Along with my team, I designed and published the annual magazine of this club. I collected submissions and managed sponsorships and advertisements for the magazine during this time.

Class Representative

Department of BME, BUET

March 2021 – May 2022

I managed the routine and class schedules of my class and maintained liaison with the professors throughout this time.

Experience

2020 – 2021	Organizer and Co-host: Live talk sessions by BUET Film Society
2019	Organizer: Seminars by BUET Film Society
2018	Co-organizer and Co-host: BUET Dance Fest
2017	Substitute Teacher: Holy Cross School
2017 – 2019	Member, Executive Academic Team: Bangladesh Biology Olympiad and Bangladesh Mathematical Olympiad
2014 – 2016	Executive Member: Student Council, Holy Cross College

Reference

DR. JAHID FERDOUS

ASSISTANT PROFESSOR

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