

HUMAIRA TASNIM OISHI

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Academic Credentials

Bachelor of Science in Civil Engineering (B.Sc.)

(January 2019 – May 2023)

Islamic University of Technology (IUT)

CGPA 3.5/4.00

Gazipur, Bangladesh

Work Experience

Junior BIM Engineer

Surbana Jurong Infrastructure Pte Ltd- Bangladesh

(June 2024 – October 2024)

Activities performed: Building Modelling using Revit Software, Drawing sheet preparation, Scheduling.

Research Experiences

Undergraduate Thesis

(April 2022 – May 2023)

Oishi, H. T., & Tasnim, Z. (2023). Microplastics (MPs) in Water Column of the Peripheral Rivers and Lake of Dhaka City (Doctoral dissertation, Department of Civil and Environmental Engineering (CEE), Islamic University of Technology (IUT), Board Bazar, Gazipur-1704, Bangladesh).

Accepted in ICACE 2024, Springer, Singapore [Water column sample, exposed to various point and nonpoint sources of contaminants into the rivers and lake of Bangladesh, were collected and analyzed using modified National Oceanic & Atmospheric Administration (NOAA) laboratory analysis methods which involves digestion, density separation and microscopic inspection to get different characteristics of MPs like mass concentration, abundance, shape, size, color, FTIR results, SEM analysis and pollution load index so that initiatives can be taken to control the pollution.]

Research Publications

- Islam, Md. S., Karim, Md. R., Islam, M. T., Oishi, H. T., Tasnim, Z., Das, H., Kabir, A.H.M.E., Sekine, M. (2023). Abundance, characteristics, and ecological risks of microplastics in the riverbed sediments around Dhaka City. **Science of The Total Environment**, 877, 162866. [doi:10.1016/j.scitotenv.2023.162866](https://doi.org/10.1016/j.scitotenv.2023.162866) (SSRN)
- Karim, M.R., Islam, M.T., Islam, M.S., Oishi, H.T., Tasnim, Z. (2024). Microplastics in River Sediments Around the Dhaka City: A Case Study for Occurrence and Quantification. In: Arthur, S., Saitoh, M., Hoque, A. (eds) Proceedings of the 6th International Conference on Advances in Civil Engineering. **ICACE 2022**. Lecture Notes in Civil Engineering, vol 368. Springer, Singapore. https://doi.org/10.1007/978-981-99-3826-1_9

Academic Projects

- Final Year Design Project (5 stories school with all amenities) (2022– 2023)
- Designing a 50 acre model town with all required amenities (2023)
- Designing a tannery plant with necessary facilities (2022)

TOEFL Score : 90

Reading	Listening	Speaking	Writing
18	24	25	23

Technical Skills

Engineering Software:	AutoCAD 2D SWMM	Knowitall Informatics	Optica Pro View	ETABS REVIT
Programming Language:	Python			
Collaborative Tools:	Microsoft suit	Google Workspace		

Certified Courses and Training

- Industrial visit to wastewater treatment plant. (2022)
(Organized by Islamic University of Technology)
- Academic industrial training sessions and field visits. (2021)
(Organized by Islamic University of Technology)
- Practical Surveying on field. (2019)
(Organized by Islamic University of Technology)

Volunteer Experiences

- 1. Joint Head of Communication** (June 2022–April 2023)
IUT Debating Society
Played an active role in intra-university competitions and webinars and contacted other representative universities for widespread promotions of the events.
- 2. Assistant Head of Publication** (August 2022–July 2023)
IUT Photographic Society
Wrote and edited articles for various occasions like competition, seminars.
- 3. Head of Seismic** (February 2022–March 2023)
CENNOVATION-2023, CEE dept. Islamic University of Technology
Communicated and encouraged individuals from different universities to participate in the biggest Civil Engineering oriented fest in the country and arranged materials for participants.

Extra-curricular activities, Awards, and Achievements

- 1. Poster exhibition on AEESP Research and Education Conference in Boston, MA, 2023**
Poster title: *Study on abundance of microplastics (MPs) in freshwater in and around Dhaka city*
- 2. Semi-finalist**
HULT Regionals 2021 | Ho Chi Minh City HULT Foundation, United Nations
- 3. 2nd Runner-Up**
HULT Prize-On Campus 2021 Islamic University of Technology
- 4. 1st Runner-Up**
Intra Poster Presentation Competition 2021 ACI IUT Student Chapter, IUT
- 5. Semi-finalist**
Climate Science Olympiad 2022