

ISHRAQ FARUK

✉ ixf3833@mavs.uta.edu

☎ +1 (682) 561 9649

ACADEMIC QUALIFICATIONS

The University of Texas at Arlington (UTA)

Master of Science (MS) in Civil Engineering
Major: Geotechnical Engineering

(August, 2021 – Present)

Bangladesh University of Engineering and Technology (BUET)

Bachelor of Science (BS) in Civil Engineering

(July, 2014 - October, 2018)

PROFESSIONAL EXPERIENCE

1. **Graduate Research Assistant** (*September, 2021 – Present*)

SWIS (Solid Waste Institute for Sustainability) Lab

Key responsibilities: Currently involved in different projects aiming to improve ground quality, pavement mix designs and energy generation using different types of waste materials with a view to reducing solid waste and converting the wastes into resources.

2. **Project Engineer** (*March, 2021 – June, 2021*)

Module Architects

Key responsibilities: Designing and estimating structures in various projects of Border Guard Bangladesh (BGB). Other responsibilities include preparing BOQ and site work management.

3. **Executive – Technical Services** (*November, 2020 – January, 2021*)

Asian Paints Bangladesh Limited

Key responsibilities: Ensuring the sale of waterproofing and construction materials. Frequent site visits and creating awareness for proper waterproofing.

4. **Quantity Surveyor & BIM Engineer** (*February, 2019 – June, 2020*)

Hankuk Engineering Consultants

Representative of Dhaka Water Supply and Sewage Authority for Dasherbandi Sewage Treatment Plant

Key responsibilities: Developing 3D Building Information Models (BIM) and review architectural and structural drawings of various facilities of the sewage treatment plant project.

TECHNICAL SKILLS

Programming C++, MATLAB, Python

Software ArcGIS, Autodesk Revit, Autodesk AutoCAD, Autodesk Civil 3D, PLAXIS 2D, SewerGEMS, ETABS, SAP2000, STAAD.Pro

RESEARCH EXPERIENCE

1. Undergraduate thesis topic “**Effects on Water Quality of Buriganga and Dhaleshwari Rivers Due to Relocation of Tannery Industries from Hazaribagh to Savar**” (Rodoshi Ahmed, Sadia Marjia Ferdous, Muhtashim Rafiq Chowdhury, **Ishraq Faruk**) under the supervision of Dr. Rowshan Mamtaz.

CONFERENCE PROCEEDINGS

1. Ahmed R., Chowdhury M.R., **Faruk I.**, Ferdous S.M.: **Is the CETP at Savar polluting the Dhaleshwari River?**, 7th International Conference on Water and Flood Management, 2019
2. Ahmed R., Chowdhury M.R., **Faruk I.**, Ferdous S.M.: **Impacts of relocation of tannery industries on the river system of Dhaka**, 5th International Conference on Civil Engineering for Sustainable Development, 2020

PROJECTS

Design of Water Supply, Sanitation and Sewerage Systems

Undergraduate Project Work (January, 2018 – October, 2018)

- Completed as part of the Environmental Engineering Major requirement
- Designed the layout of an industrial village
- Calculated water demand and wastewater generation quantities
- Performed well design calculations
- Calculated hourly water demand per day
- Designed ring loop water supply system
- Designed wastewater discharge network
- Submitted all network design drawings in AutoCAD files

EXTRACURRICULAR & VOLUNTEERING EXPERIENCES

- Organizer, Eccentric CE Festival 2018
- Poster presentation on The Resilience of Dome Structures
- Volunteer, 1st CE Summit, BUET 2016
- Volunteer, Sweden-Bangladesh Nobel Memorial quiz in 2015
- Member, Scintilla Science Club, St. Joseph Higher Secondary School