

# Mohaimenul Islam

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## Career objective

A motivated and detail-oriented civil engineer with hands-on experience in geotechnical investigation, feasibility studies, and design support for major infrastructure projects. Eager to contribute technical expertise and a quick learning ability to challenging engineering roles, while continuously growing in the field of geotechnical engineering.

## Academic Qualification

- **Master of Science (M.Sc.) in Geotechnical Engineering.**  
Institution : Bangladesh University of Engineering and Technology (BUET)  
Department : Geotechnical and Civil Engineering  
Result : CGPA 3.25 out of 4.00  
Passing Year : 2024 – Present
- **Bachelor of Science (B.Sc.) in Civil Engineering.**  
Institution : Islamic University of Technology (IUT)  
Department : Civil and Environmental Engineering  
Result : CGPA 3.53 out of 4.00  
Passing Year : 2019
- **Higher Secondary Certificate (HSC).**  
Institution : Rajshahi College, Rajshahi  
Group : Science  
Result : GPA 5.00 out of 5.00  
Passing Year : 2015
- **Secondary School Certificate (SSC).**  
Institution : Govt. Laboratory High School, Rajshahi  
Group : Science  
Result : GPA 5.00 out of 5.00  
Passing Year : 2013

## Professional Experiences

### ACE Consultants Ltd.

A subsidiary of SMEC International Pty Ltd.  
(Aug-2023 – Present)

Project: Dhaka–Chattogram National Highway (N1) (231km) (Feasibility & Detailed Design)

Role: Junior Engineer (Geotechnical & Survey)

Duration: August 2023 – Present

### Key Responsibilities & Contributions:

- Conducted embankment design and slope stability analysis using GeoStudio Slope/W.
- Performed bearing capacity and pile capacity calculations and pile settlement calculation according to AASHTO LRFD 2020 and BNBC.
- Analyzed ground improvement techniques and settlement using Settle3D.
- Designed reinforced concrete (RC) retaining walls.
- Estimated earthwork quantities.
- Assisted in cut-fill analysis and highway alignment refinement based on terrain and geometric considerations.

- Prepared technical reports and documentation for feasibility and detailed design phases.
- Digitized orthomosaic imagery to support generation of Digital Elevation Models (DEM) and Digital Terrain Models (DTM).
- Supported cross-section extraction, sight distance checks, and alignment optimization through orthomosaic-based digitization.
- Digitized mouza maps for land acquisition planning; resolved boundary overlaps and contributed to resettlement zone optimization using GIS tools.

**Project: Feasibility Study for 22 Roads Connectivity Improvement Project**

Role: Junior Engineer (Geotechnical & Survey)

Duration: August 2023 – Present

**Key Responsibilities & Contributions:**

- Contributed to embankment design, slope stability checks, and foundation analysis for multiple proposed road corridors.
- Performed settlement assessment, earthwork estimation, and alignment optimization.
- Supervised geotechnical site investigations for proposed road corridors, ensuring proper field data collection and coordination with investigation teams.
- Conducted multi-criteria analysis to evaluate and recommend between existing alignments and alternative routes.
- Managed internal coordination for deliverable preparation, ensuring timely submission of design outputs.
- Prepared technical reports, synthesizing analytical results, engineering rationale, and planning recommendations for feasibility submissions and preliminary design.
- Conducted reconnaissance surveys to gather preliminary site information and assess project feasibility conditions.

Other Projects:

**Feasibility Study of Dhaka Outer Ring Road Project**

- Supervised geotechnical site investigation, including coordination of field testing and borehole logging.

**Mayanagar Township Project**

- Supervised geotechnical site investigations including Standard Penetration Test (SPT), Cone Penetration Test (CPT), and Pressuremeter Test for the Mayanagar Township Project.

**Feasibility Study & Detailed Design of 2nd Sultana Kamal Bridge Project.**

- Supervised geotechnical site investigation, including coordination of field testing and borehole logging

**Narayanganj Transportation Master Plan.**

- Supervised geotechnical site investigation.

**Smart Development Engineering Ltd. (SDE)**

(Jan-2020 – July-2023)

**Project: Risk Sensitive Land Use Planning for DAP area. (URP – S05)**

Role: Junior Geotechnical Engineer

Duration: Jan 2020 – July 2023

**Key Responsibilities & Contributions:**

- Coordinated field geotechnical investigations and soil testing operations.
- Supervised in-situ testing including SPT, CPT, and downhole seismic surveys.
- Monitored geotechnical laboratory testing procedures and quality control.
- Prepared ASTM-compliant test reports and BNBC site classification analyses.
- Managed laboratory logistics, equipment calibration, and sample management.

## **Software Expertise**

Geotechnical	Settle3D, GeoStudio Slope/w, Plaxis 2D 2019
GIS	QGIS
Design	Auto-CAD 2D
MS Office	Word, Excel, Power Point

## **Language Proficiency**

- English
- Bangla

## **Personal Details**

Name	: Mohaimenul Islam
Date of Birth	: 16 <sup>th</sup> March, 1997
Father's Name	: Md. Sadiqul Islam
Father's Occupation	: Retired Govt. Banker
Mother's Name	: Mst. Mahabuba Khatun

## **References**

**Prof. Dr. Hossain Md. Shahin**  
Dept. of Civil and Environmental Engineering  
Islamic University of Technology,  
Board Bazar, Gazipur-1704, Bangladesh.  
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Lead GIS & Survey  
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I hereby declare that the foregoing and attached information is true and complete to the best of my knowledge.

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**(Mohaimenul Islam)**