

Rafiul Bari Angan

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Academic Credentials

Bachelor of Science in Civil Engineering

CGPA: 3.76/4.00

Bangladesh Army University of Engineering & Technology (BAUET)

March, 2016 – March, 2020

Major: Structural Engineering

Minor: Transportation Engineering

Research Interests

Structural Materials, Health Monitoring, Non-destructive Tests, Retrofitting system, FRP

Research Experience:

Undergraduate Research Work

March, 2019 – March, 2020

Bangladesh Army University of Engineering & Technology (BAUET)

Thesis Title: *Effect of corrosion on mechanical properties of TMT bars*

- The experimental results revealed an inverse relationship between corrosion percentage and strength and strain, as well as the fact that strength and strain decrease with an increased corrosion rate. This information also assisted me in determining the health of the structure.

Research supervisor: Md. Mohshin Ali

Senior Lecturer, Department of Civil Engineering, BAUET

Project Experience:

Undergraduate Project Work

March, 2019 – March, 2020

Bangladesh Army University of Engineering & Technology (BAUET)

Project Title: *Construction of 2 Class room Academic Building with 4-Storied Foundation including Sanitary*

- I replicated a real-life project. I drew the plan layout of the project using AutoCAD. I developed an ETABS model for that project based on our national building code. I also created a bill of quantity (BOQ) after analyzing the model.

Project supervisor: Md. Saddam Hossain

Lecturer, Department of Civil Engineering, BAUET

Publications

“Potential Durability and Quality Assessment of Built Concrete: An Onsite Investigation” accepted in INTERNATIONAL CONFERENCE ON ADVANCES IN CIVIL ENGINEERING (ICACE)-2022

Professional Experiences

Civil Safety Assessor

June, 2020 – July, 2021

Urban Resilience Project (URP)

Safety Consultants BD, Mamun Plaza, Hatkhola Road, Dhaka-1203, Bangladesh

Work done so far:

- Structural and Architectural drawing of buildings and site investigation.
- Conducting Non-Destructive Tests and prepared assessment reports of those buildings.

- Quality analysis of Nondestructive Test reports.
- Operate Ferro-scanner, UPV machine, and Rebound Hammer.

Intern Engineer

February, 2019- March, 2019

The Structural Engineers Ltd. Dkaka-1203, Bangladesh

- Here, I learned various types of construction methods. Slab casting, pile casting, and column-beam casting were among the techniques I learned. I was also informed about the various types of construction materials as well as various safety precautions. I also learned how to plot all of my drawings and solve numerous challenges.

Standardized Test Score:

International English Language Testing System (IELTS) - 12th February, 2022

Overall	Listening	Reading	Writing	Speaking
6.5	7.0	6.5	6.0	6.0

Technical Skills:

Engineering software: ETABS AutoCAD SAP 2000 GIS
 Programming: C C++
 Image processing software: Adobe Lightroom Snapseed Picsart Inshot
 Video processing software: Movavi Video Editor Plus

Extra-curricular activities and achievements:

- Seminar on Structural Engineering, BUET [February-2020]
- Seminar on Water Resource and Management [May-2018]
- Poster Presentation on “Waste Management and Recycling” BAUET Tech Fair-2018
- Workshop on “Business Research on Brand Equity” at M.I Cement Factory Ltd. (Crown Cement) [January 2019]
- Selected for 2nd Round of GPH ispath-Prothom Alo En-Genius Structural Engineering Competition 2020.
- Student scholarship from Bangladesh Army University of Engineering & Technology (BAUET) [2018 & 2020]

Reference:

Dr. Mahmudur Rahaman
Assistant Professor,
 Department of Civil Engineering, BAUET
 Contact Email: dr.mahmudur@bauet.ac.bd

Md. Mohasin Ali (undergraduate thesis supervisor)
Senior Lecturer,
 Department of Civil Engineering, BAUET
 Contact Email: mmali19bd@gmail.com