

S M Ashik Al Aziz

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Academic Qualifications

M.Sc. in Civil Engineering:

- Institution: The University of Texas at Arlington
- Year: June, 2022 – Present

B.Sc. in Civil Engineering:

- Institution: Bangladesh University of Engineering & Technology (BUET)
- Year: July, 2014 – October, 2018

Higher Secondary Certificate (HSC), Science:

- Institution: Dhaka College, Dhaka
- Year: 2013

Secondary School Certificate (SSC), Science:

- Institution: Government Laboratory High School, Dhaka
- Year: 2011

Professional Experience

June 2022 – Present: Graduate Research Assistant, SWIS (Solid Waste Institute for Sustainability) Lab.

- Involved in different projects aiming at ground improvement and slope stability

May 2019 – May 2022: Junior Consultant (Civil), Dasherbandi Sewage Treatment Plant, Dhaka WASA Individual Consultant (DIC).

- Civil Site Supervision.
- Structural and Architectural design review using international codes.
- “Sewer Network Infrastructure to collect 500MLD sewage” design review.
- Preparing and conducting presentations on design and work progress.

November 2019 – December 2021: Adjunct Lecturer, Department of Civil Engineering, Presidency University Bangladesh (PUB).

- Teaching theory courses of Structural, Geotechnical, Hydraulics engineering.
- Conducting laboratory works for sessional courses.
- Supervising students for conducting thesis.
- Preparing exam papers and results.

December 2018 – May 2019: Research Assistant, Department of Civil Engineering, Bangladesh University of Engineering & Technology (BUET).

- Material testing in the laboratory and checking test reports.
- Preparing conference and journal papers.
- Review of designs with ASCE-41 for checking Earthquake resistivity of structure.
- Design of simple bridges using LRFD method.

Research and Publications

- Conducted a research on “**Effect of Jute Fiber on the Mechanical Properties of Concrete**” under the supervision of Dr. Rupak Mutsuddy, Assistant Professor, Department of Civil Engineering, Bangladesh University of Engineering & Technology.
- Published a journal paper on "**Effect of Jute Fiber on the Mechanical Properties of Concrete**" in “**Journal for Built Environment, Technology and Engineering**”, Volume 5 (Sep, 2018), Malaysia.
- Published a conference paper on “**Effect of Nylon Fiber Aspect Ratio on the Mechanical Properties of Fiber Reinforced Concrete**” in “**International Conference on Engineering Research and Education School of Applied sciences & Technology, SUST, Sylhet**” held on 26-28 February, 2021.

Technical Skills

- **Software:** ETABS, SAP, STAAD Pro, Autocad, Autodesk Revit, MS Word, Power-Point, Excel, Adobe Illustrator, Adobe Photoshop, Matlab, C++
- **Laboratory & Field Equipment:** Universal Testing Machine (UTM), Direct Shear Test Apparatus, Triaxial Test Apparatus, Dynamic Cone Penetrometer, Cassagrande Apparatus, Vicats Apparatus, Theodolite, Total Station.

Extra-Curricular & Volunteer Experience

- Internship at Onnorokom Group, Rokomari.Com, Pi-Labs BD, Techshop BD
- 2nd runners up at the project competition of NSU CE Festival, 2016
- Organizer, Eccentric CE Festival, 2018
- Volunteer at “Sohag Sopnodhara Pathshala” (a school for the children of nearby slums)
- Volunteer at “Mojar Ishkul” (a school for the street urchins)
- Volunteer at CE SUMMIT-2016, BUET

Reference

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