Faisal Quibria Chowdhury

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**Professional Summary**

Versatile Civil Engineer offering a comprehensive background in practical applications and hands-on experience. Dedicated to advancing the field of Civil Engineering through effective problem-solving and strategic planning. A self-motivated professional known for exceptional communication and collaboration skills.

* AutoCAD
* Autodesk Civil 3D
* PTV Vissim
* STAAD.Pro
* ETABS
* MATLAB
* MS Excel
* MS Word
* MS PowerPoint

**Software Skills**

AutoCAD, Autodesk Civil 3D, PTV Vissim, STAAD.Pro, ETABS, MATLAB, MS Word, MS Excel, MS PowerPoint.

**Professional Licensure**

**Engineer In Training (EIT) -** License Number- [8066](https://account.ncees.org/rn/2280915-1551302-92da54f) Mar 2023

Board of Professional Engineers- New Hampshire

**Work History**

Graduate Research Assistant Aug 2021 – Aug 2023

West Virginia University (WVU- “R1” Research University)– Morgantown, WV

* Calibrated the WVDOH-SCI equation, achieving a **4.07% increase** in SCI ratings. **(CIAMTIS)**
* Evaluated FRP jacketing on tank cars, achieving a **27.6% weight reduction** in DOT 117R. **(PHMSA-USDOT)**
* Performed statistical, qualitative, and quantitative analyses to proactively complete research duties.

Assistant Design Engineer Aug 2019 – Mar 2020

Tiger Steel Bangladesh Limited **(TSBL)**– Dhaka, Bangladesh

* Designed land assessments, creating precise drawings and reports surpassing client needs (AutoCAD & STAAD.Pro).
* Strategically prepared Bills of Quantities **(BOQ)** and Minimum Order Quantity **(MOQ),** optimizing project cost management.
* Elevated competitiveness by creating **bidding proposals** and securing lucrative projects while affirming industry excellence. Forged meaningful client relationships through effective **on-site visits** and impactful meetings.

**Education**

Master of Science (M.Sc.) in **Civil Engineering** Aug 2023

West Virginia University (WVU- “R1” Research University) - Morgantown, WV

* *Thesis:* “Investigating the Changes in Pavement Cracking Data Due to Automated Data Collection Methods.”
* *Relevant Coursework:* Civil 3D Info Modeling, Infrastructure Asset Management, Construction Estimating, Construction Methods, Traffic Engineering Operations, Public Transportation, Pedestrian and Bike Transportation, and Statistical Methods.
* *Projects:* Executed a dynamic **AutoCAD Civil 3D** project to skillfully craft road sections, road profiles, and pipeline layouts based on topographical maps, resulting in optimized design solutions. Strategically assessed crash data in a high-risk Texas area, devising and evaluating alternative **PTV Vissim** models to enhance accident prevention.

Bachelor of Science (B.Sc.) in **Civil Engineering** Jul 2019

Khulna University of Engineering & Technology (KUET) - Khulna, Bangladesh

* *Thesis:* “Effects of disturbance on consolidation characteristics of soft clay of Khulna.”
* *Relevant Coursework:* Structural Analysis and Design, Transportation Engineering, Reinforced Concrete Structures, Design of Steel Structure, Project Planning & Construction Management.

**Research Publications**

* **Chowdhury, F. Q.**, & Yoon, Y. (2024). "Case Study: Effect of the Condition Data of Automated Pavement Surveys on Pavement Performance Indicators." Proceedings of the 2024 Construction Research Congress. (Abstract accepted)