

FAISAL MAHMUD

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Academic Qualification:

Fall 2008 to Present M.Sc. in Transportation Engineering

**Old Dominion University
Norfolk, VA, USA**

2001-02 to 2004-05 B.Sc. in Civil Engineering

**Bangladesh University of Engineering & Technology (BUET),
Bangladesh**

Major: Transportation Engineering

Thesis: Feasibility Study of Padma Bridge: A Focus on Economic and
Traffic Study

Supervisor: Professor Alamgir Mojibul Hoque

Result: 1st class

1999-2001 Higher Secondary Certificate (Equivalent to A level)

Institution: Notre Dame College, Dhaka, Bangladesh

Major: Science

Result: 1st division with star marks (80.1%)

1997-1999 Secondary School Certificate (Equivalent to O level)

Institution: Ideal School & College, Motijheel, Dhaka, Bangladesh

Major: Science

Result: 1st division with star marks (86.3 %)

Technical Qualification:

- **Civil Engineering Software:** AutoCAD, ETABS, Max
- **Civil Engineering field work:** Practical Surveying (3 weeks in field)
Quantity Surveying
Details of Construction (1 week in field)
Civil Engineering Drawing
- **Operating System:** Windows 2000/XP
- **Office Applications:** MS Word, MS PowerPoint, MS Excel,
MS FrontPage, LaTeX
- **Programming Language:** C, C++
- **Graphics:** ACD Photo Canvas, Adobe Illustrator

- **Internet Applications**

Undergraduate Area of Specialization Courses:

- Transport & Traffic Design
- Highway design & Railways
- Traffic Planning & Management
- Highway Drainage & Airports
- Roadway capacity analysis; application of analytical, simulation and statistical packages
- Design of rigid and flexible highway and air field pavements; geometric design: road intersections and interchanges; capacity calculations; traffic studies and design.

Research Work Involvement:

- Carried out a research work on “Potential of using intelligent robot for rescue works during disaster”. The objective was to design, simulation and manufacturing of robots, capable of rescue works, to be performed inside building rubbles in case of survivor detection for post disaster assistance. The research work was carried for BUET as well as national interest of Bangladesh.

- Carried out a study in the Final Year (level 4) of the undergraduate program on a proposed major transportation infrastructure development project (5.8 km long bridge over the Padma River) in Bangladesh.

Awards:

- Scholarship as an RA to Old Dominion University for master program in transportation engineering.
- Research assistantship award in BUET for making rescue robot after the graduation.
- A grantee of the 2003 Japanese Government (Monbukagakusho) scholarship, Senshu-Gakka Student.
- Board Scholarships in the general pool category for the results of H.S.C. and S.S.C. examinations.
- “Perfect Attendance” award in Notre Dame College.

Experience:

- Attended as the president of Society of Civil Engineering Students (SCES), Bangladesh, to National University of Singapore for the “Introductory activities of SCES-2005”.
- Had taken part in the “23rd National Science & Technology Week-2000” as a member of “Notre Dame College Science Club”.
- Attended the “6th Brunel International Lecture on Engineering Civilization from the Shadows” by Professor Paul Jowitt, organized by the ICE on 30th October 2006.

Projects Involved:

- Road –Traffic Study, Traffic Speed Study and Roadway Condition Survey for BUET from Russel Square to Panthapath, Dhaka, 2007.

Publications:

- Around 10 different analysis and critique publications on civil engineering in the Daily Janakantha, a leading newspaper in Bangladesh.

Interests:

- Transportation System Planning; Traffic Safety, Simulation and Management; Modeling and Optimization of Transportation Systems; Travel Behavior Analysis; Travel Forecasting and Policy Analysis Approaches.

Language Proficiency:

- Bengali: Native
- English: Fluent

Membership Affiliation:

- American Society of Civil Engineers (ASCE)
- Society of Civil Engineering Students (SCES)