

MD ASHRAF AHMED

Ph.D. Candidate, Florida International University

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Summary

• Strong background in construction engineering and management • Project management • Project coordination • Transportation engineering • Data and text mining • Statistical data analysis • Good communication, presentation, and teamwork aptitude • Ability to provide effective, technical leadership in a result-oriented environment.

Experience

Graduate Assistant

Florida International University

Moss School of Construction, Infrastructure and Sustainability

Jan 2018 - Present

- Understanding infrastructure resilience using GIS modeling, network science and resilience theory.
- Developing a tool (US patent under review) to prioritize scheduling of critical infrastructure components (roads, bridges).
- Improving the serviceability of roadway infrastructure by applying design interventions and simulation.

Entrepreneurial Lead

National Science Foundation

National Innovation Corps (I-Corps)

Jan 2021- present

- Training on entrepreneurship by The New York City Regional Innovation node, Winter Cohort 2021.
- Developing business model to commercialize COVID19 misinformation related research.
- Conducted more than 100 interviews with different government and industry professionals.

Civil Engineer

Robi Axiata Ltd., Bangladesh

Edotco (Tower Company) Bangladesh

Dec 2016- Dec 2017

- Conducted technical site surveys, provided postconstruction services, and prepared feasibility reports.
- Negotiated with landowners, homeowners, and public agencies to acquire and maintain jobsites.

Project Coordinator

SMEC-ACE Consultants Ltd., Bangladesh

Project Management Services

Sep 2014- Nov 2016

- Coordinated with project team leaders in project initiation, execution, and completion of projects successfully.
- Maintained project progress according to Project Management Guide and Financial Plan.
- Project management services provided for bridge, overpass, roadway, and railway projects.

Education & Certification

F.E.	Florida Board, FL, USA Civil Engineering	Scheduled on December 2021
Ph.D.	Florida International University, FL, USA Civil Engineering	Jan 2018 – Dec 2021 (Expected)
M.S.	Florida International University, FL, USA Civil Engineering	Jan 2018 – Dec 2020
B.S.	Bangladesh University of Engineering and Technology, Dhaka, Bangladesh Civil Engineering	July, 2014

Technical Skills

- **Application Software:** AutoCAD, MicroStation, GIS, Primavera P6, On-Screen Takeoff (OST), Revit.
- **Statistical Analysis:** R Studio, SPSS, STATA.
- **Programming Language:** Python (Anaconda, Jupyter), MATLAB, C, Java.
- **Other Software:** Microsoft word, excel, outlook, access, project, Adobe acrobat.

Relevant Coursework

- Construction Engineering Management • Sustainable Building Engineering • Prestressed Concrete Design
- Advanced Foundation Engineering • Advanced Statistical Quality Control • Large Data Analysis

Professional Services

Organizer: Student Leadership Summit, FIU Institute of Transportation Engineers (ITE) 2020

Member: American Society of Civil Engineers (ASCE)

Reviewer: ASCE Construction Research Congress

Leadership Experience

- Graduate Seminar Coordinator, Moss School of Construction, Infrastructure and Sustainability, FIU.
- Secretary at International Association for Automation and Robotics in Construction (IAARC), FIU.
- Social Coordinator at Institute of Transportation Engineers (ITE) and Women's Transportation Seminar (WTS)-Student Chapter, FIU.

Scholarship

- **NSF funding** to attend "Applications to Interviews (A2I): Preparing for the Faculty Job Market" workshop at ASCE Construction Research Congress (CRC) 2020, Arizona.
- **Design-Build Institute of America (DBIA)**, Florida Region Graduate Student Scholarship, 2020 for outstanding Ph.D. research.

Awards

- **Outstanding Presentation award** at the Annual Conference of the Next-Generation Transportation Systems (NGTS-2020), Purdue University, West Lafayette, IN, USA, December 2020.
- Nominated for the **best poster award** at Construction Research Congress 2020, Tempe, Arizona, 2020.
- Bronze Award for Duke of Edinburgh Program (International Youth Leadership Program), 2010.

Selected Presentations

- **Ahmed, M. A.**, Sadri, A. M., Pradhananga, P., Elzomor, M., & Pradhananga, N. (2020, November). Social Media Communication Patterns of Construction Industry in Major Disasters. In Construction Research Congress 2020: Computer Applications (pp. 678-687).
- **Ahmed, M. A.**, Sadri, A. M., Mojumder, M. N., Rusho, M. A., Linge, P., Amini, M. H.; #COVID-19: Understanding Community Response in the Emergence and Spread of Novel Coronavirus through Health Risk Communications in Socio-Technical Systems; Pandemic Research for Preparedness and Resilience (PREPARE) workshop, 2020 (Virtual), Virginia, December 15-16, 2020.
- **Ahmed, M. A.**, Sadri, A. M., Mehrabi, A., & Azizinamini, A.; Identifying Topological Credentials of Physical Infrastructure Components to Enhance Transportation Network Resilience: A Case of Florida Bridges; Transportation Research Board (TRB), Annual Conference, 2021 (Virtual), January 05-29, 2021.