ADRITA ISLAM

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Work Experience

Graduate Research Assistant, University of Connecticut 08/23/2016- Present

- *Conduct greenhouse gas analysis, life cycle cost analysis, social and health benefit analysis for alternate fuel buses in Connecticut as a part of the project "Strategies to Minimize Carbon" in conjunction with Connecticut Academy of Science and Engineering*
- *Collaborate with t-HUB project group on Title VI analysis for Connecticut buses*
- *Design a tool for evaluating alternate fuel buses for CTDOT*
- *Optimize replacement schedule for CTDOT buses*

Graduate Student Technician, Connecticut Transportation Institute 05/23/17- 08/22/17

- *Evaluated strategies for achieving zero carbon footprint for bus operators*
- *Analyzed optimization of alternate fuel bus turnover into an existing fleet*

Teaching Experience

Lecturer, Stamford University Bangladesh 01/02/16-07/31/16

- *Prepared course content, conducted classes, graded papers, administrated exams, mentored students*

Education

- MSc in Transportation & Urban Engineering 05/2018
  University of Connecticut
- BSc in Civil Engineering 09/2015
  Bangladesh University of Engineering & Technology (BUET)

Technical Skills

- Programming Language: *Python, HTML, CSS, JavaScript, Matlab*
- Software: *ArcGIS, GAMS, HCS 2010, SAS, AutoCAD, VISSIM 5.3, SAP 2000, ETABS, Microsoft Office*

Certification

- Engineer in Training 10/2017

Relevant Academic Projects

- "Reducing GHG Emission by Introducing Off-Board Fare Collection System for CTtransit Buses" -using Python
- "Developing and Comparing Different Mode Choice Models for NYC and NJ Metro Area" -from National Household Travel Survey (NHTS) data using Python
- "Transportation Network Optimization for Sioux Falls Network" -using GAMS
- "GTFS Feed Production For Sioux Falls Network"
- "Transit Accessibility of Minority and Low Income Population in Hartford Area" -using ArcGIS
- "Solve Shortest Path And Location Allocation for Transportation of Goods in Ohio" -using ArcGIS
- "Analyze Transportation Network Accessibility and Optimal Route for a School Bus"- using ArcGIS
- "A Case Study On Sustainable Transportation of Portland, Oregon"
- "Transportation Policies of Singapore: Creating A Sustainable City"
- "Highways to Boulevard: Applying Systems Engineering to I-84 Removal Project"

Leadership and Volunteer Experience

- Vice president, Safety Movement Club, 2015, BUET
- Program coordinator, Civil Engineering Students Association (CESA), 2015, BUET
- Bangladesh Youth Leadership Boot camp, 2015, Bangladesh Youth Leadership Campaign (BYLC)
- Leader, Poster Presentation Competition, Civil Festival, Dept. of Civil Engineering, 2014, BUET
- Volunteer works with Seba, Bangladesh, 2011-2014.

Publication & Presentations

Lownes N., Islam A., Bus Fleet Turnover Strategies To Optimize Life-cycle Costs And Carbon Emission Reductions, INFORMS, 2017.
Ahsan H. M., Islam A., Relation between Components of Permanent Way and Railway Speed in Bangladesh, International Conference on Recent Innovation in Civil Engineering for Sustainable Development (IICSD), 2015.

Academic Distinction

- Graduate Assistantship (Fall 2016 – Spring 2018), University of Connecticut
- Merit scholarships, 2011-2015, Bangladesh University of Engineering and Technology

Affiliations

- Member, Institute of Transportation Engineers (ITE)
- Member, American Society of Civil Engineers (ASCE)
- Member, Congress for the New Urbanism (CNU)
- Member, Institute for Operations Research and the Management Sciences (INFORMS)