

## Sajidur Rahman Nafis, E.I.T Applicant

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### SUMMARY

- Five years of work experience in several FDOT funded projects which involved macroscopic, mesoscopic and microscopic traffic modelling, travel demand modelling, intelligent transportation system, transportation data analytics, statistical and data mining analysis, traffic safety analysis, adaptive signal control, and GIS mapping.
- Dedicated and self-motivated individual; capable of effective verbal, written, and interpersonal communication; able to think critically and willing to learn new things.

### EDUCATION

- **Ph.D. in Civil Engineering (Transportation)** April 2021  
Florida International University (FIU), Miami, Florida  
Dissertation: 'Evaluation of Parametric and Nonparametric Models in Wrong Way Driving Crash Severity Prediction.'
- **M.Sc. in Civil Engineering (Transportation)** December 2020  
Florida International University (FIU), Miami, Florida
- **B.Sc. in Civil Engineering** October 2013  
Islamic University of Technology (IUT), Bangladesh

### SKILLS

- **Traffic and Planning:** VISSIM, Synchro, CORSIM, HCS, Safety Analyst, ArcGIS, ArcMap 10.4
- **Statistical and Programming Software:** R, RStudio, IBM SPSS, STATA, MySQL, Python
- **Drawing Software:** AutoCAD Civil 3D, MicroStation
- **Other:** Microsoft Office, Adobe Illustrator, Lightroom, Adobe Photoshop

### PROFESSIONAL EXPERIENCE

- **Lehman Center for Transportation Research at FIU** August 2016-Present  
**Graduate Research Assistant**
  - Performed the safety, mobility and operational benefits of traffic and roads
  - Developed and designed data intensive framework for deployment of road safety countermeasures
  - Designed various response plan and countermeasure system for emergency traffic situation
  - Analyzed Wrong way driving crash data in Statewide Traffic Analysis Zones (STAZs) of Florida.
  - Performed big data analytics, created machine learning models using R studio, Python, SPSS
  - Spatial mapping and analysis using ArcMap
  - Analyzed traffic behavior in CORSIM, Synchro 9, VISSIM
  - Designed Roadway using AutoCAD Civil 3D
- **Graduate Teaching Assistant at FIU** Spring 2017-Fall 2017
  - Taught Computer Tools for Civil Engineering
  - Taught MathCAD, AutoCAD, Excel Regression & Matrix to more than 400 students

### DEPARTMENT OF TRANSPORTATION RESEARCH PROJECTS

- **Strategies to Mitigate Wrong-way Driving Incidents on Arterials**, FDOT, 2018-2019
- **A Data-Driven Approach to Implementing Wrong-Way Driving Countermeasures**, FDOT 2017-2018
- **Use of Communication Technologies to Enhance Public Involvement**, FDOT 2016-2018
- **Statewide Analysis of Bicycle Crashes**, FDOT 2015-2017
- **Highway for Life (HfL) Demonstration Project: LA-511**, LTRC, LADOTD 2015-2016

### RELEVANT COURSE WORK

- Traffic Control System Design
- Transportation Demand Analysis
- Highway Safety Analysis
- Intelligent Transport System
- Advance Geometric Design of Highways
- Pavement Design
- Construction Methods
- Mass Transit Planning
- Advance Highway Capacity Analysis
- Fundamental of Traffic Engineering
- Statistics and Machine Learning Related (6 Courses)

### SCHOLARSHIP & AWARDS

- Champion, TRB National NoCoE ePortfolio Competition, Organized by TSMO at TRB 98th Annual Meeting 2019
- Winner, National Lifesavers Traffic Safety Scholars (TSS) 2019
- FIU Graduate and Professional Student Committee Travel Grant 2018

### PROFESSIONAL SERVICE AND MEMBERSHIPS

- **President**, Institute of Transportation Engineers, FIU ITE Student Chapter 2018 - 2019
- **Vice President**, Institute of Transportation Engineers, FIU ITE Student Chapter 2017 - 2018
- **Other Memberships:** ASCE at FIU, FES at FIU, CSO at FIU, WTS at FIU 2016 – 2018
- **Journal Reviewer** for Transportation Research Interdisciplinary Perspectives (TRIP) Journal 2020 – 2021