Mahmoud Pourmehrab

University of Florida Transportation Institute
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Objective: **Internship**

EDUCATION BACKGROUND

Doctor of Philosophy, ***Transportation Planning and Engineering***, *GPA 3.95* Aug 2015 – Aug 2019
University of Florida
Master of Science, ***Industrial and System Engineering***, *GPA 4.0* Aug 2016 – Aug 2017
University of Florida
Master of Science, ***Transportation Planning and Engineering***, *GPA 4.0* Aug 2012 – Aug 2014
Sharif University of Technology
Bachelor of Science, ***Civil Engineering***, *GPA 4.0* Aug 2008 – Aug 2012
Sharif University of Technology

EXPERIENCE

Research Assistant
Traffic Signal Control with Connected and Autonomous Vehicles in the Traffic Stream Aug 2015 – Aug 2017
(at University of Florida, *National Science Foundation Funded*)

- Modeling a mathematical program to optimize an isolated signalized intersection under high demand of automated and conventional vehicles.
- Developing an efficient solution method on real-time basis.
- Simulating the entire process in Python programming language.
- Analyzing, and visualizing the conduct simulation experiments' results.
- Writing official manuscripts including deliverables, reports, and research papers in a well-organizes manner.

Development and testing of Intelligent Intersection Control System Aug 2015 – Aug 2016
(at University of Florida, *Florida Department of Transportation Funded*)

- Developing a modeling framework to integrate the automated vehicles with isolated signalized intersections.
- Devising a solution algorithm to jointly optimize signalization and trajectory of automated vehicles under medium level flowrates.
- Simulating the algorithm in MATLAB programming language.
- Acquiring variety of skills including advanced programming, version controlling, statistical analyzing, data visualizing, and presenting in a punctual fashion respecting the project's needs.

Congestion Pricing Models in Urban Networks (coding optimization algorithms in Python) Aug 2012 – Aug 2015
(at Sharif University of Technology)

INTERNSHIP

Worked as an assistant structural engineer to design a 12-floor concrete structure Summer 2012
(KUSHAK Engineering Co.)

- Modeling and testing the structure for variety of loadings in ETABS software.

AFFILATIONS

- Attended Florida Automated Vehicles (FAV), 2015 & 2016
- Member, Institute of Transportation Engineers (ITE), University of Florida
- Member, Women's Transportation Seminar (WTS), University of Florida

SKILLS

Transportation: Traffic Operation, Transportation Planning, Traffic Demand Modeling, Simulation, ITS
General: Problem Solving, Team Work, Report Preparation

- REFERENCES:

Lily Elefteriadou
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University of Florida
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Siva Srinivasan
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