Mahmoud Pourmehrab

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Objective: **Internship**

EDUCATION BACKGROUND

Doctor of Philosophy, *Transportation Planning and Engineering*, *GPA 3.95*   Aug 2015 – Aug 2018
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*)

- Defining the problem of Signal Phase and Timing (SPaT) high demand of automated and conventional vehicles.
- Modeling/Solving an Optimization Model to operate an Intersection at the least delay.
- Simulating/verifying the intersection performance in VISSIM and Python.
- Cooperating with a multidisciplinary group of experts from computer science, mechanical engineering, etc.
- Performing field testings in Gainesville and Traffic Engineering Research Lab facility in Tallahassee, Florida.
- Analyzing, and visualizing the 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*)

- Defining the problem of Vehicle Trajectory Optimization low demand of automated and conventional vehicles.
- Modeling/Solving an Optimization Model to minimize travel time delay of an individual vehicle.
- Simulating/verifying the intersection performance in VISSIM and Matlab.
- Acquiring variety of skills including advanced programming, version controlling, statistical analyzing, data visualizing, and presenting in a punctual fashion respecting the project's needs.

Institute of Transportation Engineers Student Chapter
ITE Officer – Event Coordinator   May 2017 – May 2018

- Coordinating several Social Events and General Body Meetings
- Inviting speakers and organizing several seminars at Gator ITE
- Participating in organizing Student Leadership Summit 2018
- Participating in planning process of Gator ITE attendance at UTC conference
- Participating in adopting a highway (University Ave.) to clean
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Congestion Pricing Models to Reduce Traffic Externalities in an Urban Networks   Aug 2012 – Aug 2015
(at Sharif University of Technology)

SKILLS

General:	Problem Solving, Team Work, Report Preparation, Presentation
Programming Languages:	Python, MATLAB
Data Analysis and Visualization:	R, Tableau, MATLAB, SPSS, Plotly, Matplotlib
Optimization:	GAMS, Mathematica, LINGO
Transportation	Traffic Operation, Simulation, ITS, Transportation Demand Modeling

- REFERENCES:

Lily Elefteriadou
Relation: (chief supervisor, professor)
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Siva Srinivasan
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