

Mahmoud Pourmehrab

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Objective:

Internship

EDUCATION BACKGROUND

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

EXPERIENCE

Research Assistant

Traffic Signal Control with Connected and Autonomous Vehicles in the Traffic Stream (at University of Florida, <i>National Science Foundation Funded</i>)	Aug 2015 – Aug 2017
<ul style="list-style-type: none">- 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 (at University of Florida, <i>Florida Department of Transportation Funded</i>)	Aug 2015 – Aug 2016
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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	

Congestion Pricing Models to Reduce Traffic Externalities in an Urban Networks (at Sharif University of Technology)	Aug 2012 – Aug 2015
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INTERNSHIP

Worked as an assistant structural engineer to design a 12-floor concrete structure (KUSHAK Engineering Co.)	Summer 2012
<ul style="list-style-type: none">- Modeling and testing the structure for variety of loadings in ETABS software.	

SKILLS

Transportation: Traffic Operation, Transportation Planning, Traffic Demand Modeling, Simulation, ITS

General: Problem Solving, Team Work, Report Preparation, Presentation

- REFERENCES:

Lily Elefteriadou

Relation: (chief supervisor, professor)

Designation: Professor

University of Florida

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Siva Srinivasan

Relation: (committee member, professor)

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Yafeng Yin

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