

Mahmoud Pourmehrab

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Objective:

Internship

EDUCATION BACKGROUND

Doctor of Philosophy, <i>Transportation Planning and Engineering</i>, GPA 3.94 University of Florida, Gainesville	Aug 2015 – Aug 2019
Master of Science, <i>Transportation Planning and Engineering</i>, GPA 4.0 Sharif University of Technology, Tehran	Aug 2012 – Aug 2014
Bachelor of Science, <i>Civil Engineering</i>, GPA 4.0 Sharif University of Technology, Tehran	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">- 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.- Coding the entire process in Python programming language.- Analyzing, and visualizing the conduct simulation experiments' results.- Writing official scripts 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">- 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.- Coding and testing 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) (at Sharif University of Technology, Tehran)	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., Tehran)	Summer 2012
<ul style="list-style-type: none">- Modeling and testing the structure for variety of loadings in ETABS software.	

AFFILIATIONS

- Attended Florida Automated Vehicles (FAV), 2015 & 2016
- Event Coordinator of ITE Chapter 2017-2018, University of Florida
- Member of Women's Transportation Seminar (WTS), University of Florida

SKILLS

Programming: Python, MATLAB, LaTeX, Mathematica	Transportation: VISSIM
Data analyze: R Language, Python, Tableau, Stata, SPSS	Optimization: GAMS, CPLEX, NEOS

- REFERENCES:

Lily Elefteriadou

Relation: (chief supervisor, professor)

Designation: Professor

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Yafeng Yin

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