



Transportation engineer with six years of experience in traffic projections, data analysis, macro-and microscopic traffic simulation, travel demand modeling, and GIS data analysis.

EDUCATION

Ph.D. in Urban Science, Major in Transportation (Part time)

01/2017 – Present

Portland State University – Portland, OR

MSc. in System Engineering, Major in Operation Research

01/2012 – 06/2013

Southern Methodist University – Dallas, TX

MSc. in Civil Engineering, Major in Transportation

09/2010 – 12/2011

Southern Methodist University – Dallas, TX

BSc. in Information Technology

09/2004 – 06/2008

Sharif University of Technology, Tehran-Iran

SKILLS

- HCS
- VISSIM
- SYNCHRO
- ArcGIS
- Tableau
- EIT Certificate,
- PE (In Progress) – Registered for the test in the State of Washington.

WORK EXPERIENCE

Research and Teaching Assistant

01/2017 – 06/2020

Portland State University – Portland, OR

- Teaching assistantship for Introduction to Urban Planning – Teach by Dr. Megan Horst
- Teaching assistantship for Introduction to Transportation Engineering – Teach by Prof. Peter Koonce
- Research assistantship on the modeling and validation project for ODOT - A Method to Estimate Annual Average Daily Traffic for Minor Facilities for Map-21 Reporting and Statewide Safety Analysis.
- Research assistantship on the Land Use and Transportation Policies for a Sustainable Future with Autonomous Vehicles project for NITCI (Scenario Analysis with Simulations)

Transportation System Modeler

01/2012 – 12/2016

C&M Associates, Inc. – Dallas, Texas

- Maintained and improved the travel demand model to generate and interpret travel forecasts for short and long-term transportation plans.
- Processed traffic count data and developed VISSIM models for various corridors in Texas. I also developed an analysis along the corridor in HCS, reviewed the travel demand model for the El Paso region.
- Analyzed and evaluated the traffic data, socio-economic, external station, and origin-destination data.
- Developed the GIS analysis, geocoded the origin-destination surveys, prepared the maps such as speed patterns and socio-economic maps. Summarized the results of different steps of the travel demand model and presented in informative maps.
- Presented and published the reports associated with the analysis results.

System Analyst

06/2008 – 07/2010

JTK Co. – Tehran, Iran

- Collected information to analyze and evaluate existing and proposed systems.
- Prepare detailed flow charts and diagrams, outlined systems capabilities, and processes.
- Documented system problems and resolutions for future references.

LANGUAGES

English (professional), Farsi/Persian (native), Spanish (beginner)