

Work Experience	<p>Transportation Engineer Cintra US, Austin, Texas Dec. 2015 – Sep. 2016</p> <ul style="list-style-type: none"> ▪ Created logit regression models to forecast demand and revenue based on traffic and socio-economic data (Python/SQL) improved revenue prediction by 20% ▪ Developed a nonlinear optimization program to solve network assignment problems that resulted in lowering computational time by 50% ▪ Developed capital expenditure models for pavement and road asset maintenance for toll road projects ▪ Reviewed maintenance strategies for NTE and LBJ projects to match with the pavement deterioration reports ▪ Analyzed and cross-validated data models using Python/Scikit-learn to provide data-driven solutions to ▪ optimize revenue, customer satisfaction, and competitive differentiation <p>Graduate Researcher Texas A&M Transportation Institute, College Station May 2015 – Dec. 2015</p> <ul style="list-style-type: none"> ▪ Conducted before-after studies and measure the performance of implementing innovative intersections at Virginia ▪ Analyzed geospatial data to study the correlation of tire debris distribution and safety issues ▪ Compiled and summarized spatial data records using ArcGIS to illustrate the impact of truck traffic volume on safety <p>Project Engineer Bagh-e-Andishe Architects, Tehran Sep. 2013 – Jul. 2014</p> <ul style="list-style-type: none"> ▪ Optimized construction workflow by changing the project timeline, reducing construction time by 15% ▪ Conducted in-depth analysis of project financials to implement and adapt project planning which resulted in lowering the expenses by 10% ▪ Oversaw the construction works to be in compliance with design criteria and national standards <p>Engineer Bagh-e-Andishe Architects, Tehran Jun. 2010 – Sep. 2013</p> <ul style="list-style-type: none"> ▪ Contributed in urban and regional planning of several metropolitan regions ▪ Conceptualized all-inclusive feasibility study of a retail development based on consumer behavior modeling ▪ Collaborated in different phases of retail and residential projects including business development, planning, site plan design, and infrastructure ▪ Performed traffic impact studies for future developments and proposed mitigation measures using travel demand forecasting models
Volunteer Experience	<p>Analyst Habitat for Humanity, Austin Oct. 2016 – Present</p> <ul style="list-style-type: none"> ▪ Developed dashboard system which provides insight into the financial health of the operation using Python/SQL ▪ Developed financial/performance reporting system based on Dynamic GP accounting dataset using Python resulted in decreasing the reporting time by 100%
Education	<p>Texas A&M University, College Station, Texas May 2016 Master in Civil Engineering, Transportation Engineering, GPA: 4.00</p> <p>Iran University of Science and Technology, Tehran May 2010 Bachelor of Science in Civil Engineering</p>
Certification	Principles of Machine Learning – edx, Inc (Microsoft 2016)
Computer Skills	AutoCAD, Civil 3D, MicroStation, SketchUp Excel, ArcGIS Python, SQL