

Career Objective

A charismatic transportation engineer passionate about improving multi-modal transportation with sustainable design to achieve Vision Zero with minimized congestion.

Education

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| Master of Science in Transportation Engineering | <i>Sept 2015 to May 2018</i> |
| • University of Massachusetts Amherst, MA | <i>GPA – 3.77</i> |
| Bachelor of Engineering in Civil and Environmental Engineering | <i>Aug 2008 to Jun 2012</i> |
| • Sathyabama University, Chennai, India | <i>GPA – 3.4</i> |

Technical Skills

- **Micro-Simulation Tools** : VISSIM, AIMSUN, Synchro/Sim-Traffic, Trans-Modeler
- **Drafting** : AUTO-CADD, Sign-CAD, Auto-Turn, Sketch-Up
- **Planning and Mapping** : Arc-GIS, Trans-CADD
- **Miscellaneous Tools** : Microsoft Office, Python

Relevant Experience

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| Transportation Engineer II | Green International Affiliates | <i>Sep 2017 to Current</i> |
| <ul style="list-style-type: none">• Responsible for the analysis of signalized and unsignalized intersections using Synchro, Sim-Traffic and VISSIM.• Designed separated bike lanes and shared used path for the City of Quincy, MA.• Researched and prepared Complete Streets Tier II plans for the Town of Braintree, Ashland and Walpole, MA.• Conducted and prepared Traffic Impact & Access studies report and Traffic Mitigation Plan for residential, commercial and bridge reconstruction projects.• Prepared signing & striping plans, pavement marking plans and signal timing detail plans for MassDOT and RiDOT. | | |
| Research Assistant | University of Massachusetts Amherst, MA | <i>Jan 2016 to May 2017</i> |
| <ul style="list-style-type: none">• Optimized the design of the approach of a modern roundabout using VISSIM and AIMSUN.• Reviewed Crash data with State Troopers and MassDOT engineers to improve automatic geocoding of crashes.• Teaching assistant for the course, Introduction to CEE Measurements. | | |
| Traffic Engineer Intern | Massachusetts Department of Transportation, Boston, MA | <i>June 2016 to Sep 2016</i> |
| <ul style="list-style-type: none">• Researched and geocoded un-located crashes using Geonetics GIS software.• Drafted Collision diagrams and prepared reports on high crash locations.• Assisted six work zone inspections and three Road Safety Audits (RSA). | | |
| Research Assistant | Indian Institute of Technology Chennai, India | <i>Jan 2015 to Jul 2015</i> |
| <ul style="list-style-type: none">• Developed a Python code to classify different kinds of vehicles entering a loop detector in heterogeneous traffic conditions.• Evaluated data for Bus travel time prediction system for Madras Transport Corporation. | | |
| Graduate Engineer | Eurovia-National Asphalt Production and Construction | <i>Jun 2012 to Dec 2013</i> |
| <ul style="list-style-type: none">• Responsible for creating the Quantitative Analysis Report of L&T Port's ship-yard project, Ennore, Chennai, Tamil Nadu.• Constructed rigid, flexible pavement and designed hydrological drainage layers for Honda Test track project. | | |

Academic Projects

- Analyzed emergency evacuation scenarios to mitigate traffic congestion using VISSIM for UMass Campus
- Analyzed existing traffic conditions and proposed an alternative traffic plan to mitigate congestion traffic during Big-E event using Trans-Modeler.
- Collected data, geo-coded and mapped data associated to variable speed and density related crashes using ArcGIS.
- Implemented 4-Step Travel Demand using Trans-CADD to analyze the traffic impact by MGM casino in Springfield.
- Evaluated the performance by optimizing the cost, demand and frequency of BRT buses in Geary Transit Corridor, SF

Publication and Presentations

Presented a paper titled 'Impact of S-Curves on a Modern Roundabout' at the Road Safety and Simulation International Conference held at Hague, Netherlands in October 2017.