

AKSHAHEY SABHA



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OBJECTIVE

A charismatic transportation engineer passionate about improving multi-modal and door-to-door transportation, focusing on sustainable design and working towards Vision Zero.

TECHNICAL SKILLS

Micro-simulation:

- VISSIM
- AIMSUN
- Synchro/Sim-Traffic
- Trans-modeler

Drafting:

- Auto-CAD
- Sign-CAD
- Auto-Turn
- Sketch Up

Planning and Mapping:

- Trans-CADD
- ArcGIS

Miscellaneous:

- Microsoft Office
- Python programming

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.



RELEVANT EXPERIENCE

Transportation Engineer/Planner II Sept '17-Current
Green International Affiliates, Inc.

- Responsible for analysis of signalized and unsignalized intersections using Synchro, Sim-Traffic and VISSIM.
- 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 Jan '16-May '17
University of Massachusetts, Amherst

- 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 Jun '16-Aug '16
Massachusetts Department of Transportation

- 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).

Projects

- Completed micro-simulation analysis for 5 evacuation scenarios for UMASS campus-wide evacuation problems using VISSIM
- Analyzed existing traffic conditions and proposed an alternative traffic plan to alleviate the excess traffic during Big-E event using Trans-Modeler
- Collected data, geo-coded, analyzed 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 of BRT buses by optimizing the cost, demand and frequency of BRT buses in Geary Transit Corridor, San Francisco
- Evaluated a Bus travel time prediction system



EDUCATION

University of Massachusetts, Amherst Sept '15-May '18
• Master of Science, Transportation Engineering GPA-3.77

Satyabama University, Chennai, India Aug '08-Jun '12
• Bachelor of Engineering, Civil Engineering GPA-3.4