

Core Qualifications:

- i) BE Civil Engineering
- ii) Academic knowledge of traffic operations, signal design, prediction models.
- iii) Traffic data collection, assessments, and analysis.
- iv) Can work autonomously as well as on Cross-functional project teams.
- v) General traffic and safety studies.
- vi) Good knowledge of MUTCD and AASHTO Green book.

Projects undertaken during Graduate school at UMD:

- Term project on inter-modal passenger transfers and coordinating it with the train arrival timings.
- Evaluation and improvement of a two-lane rural highway using crash prediction models in IHSDM software.
- Roundabouts: design and operational aspects
- Estimating travel time of an elevator using Monte-Carlo simulation
- Demand elasticity and Policy evaluation-Dulles Airport toll road
- Estimating Unconstrained runway capacity of an airport using Monte-Carlo simulation

Professional Experience

Project Engineer

May 24th 2010-July 2011
Ludhiana, India

PGCIL (Power sector)

- Supervised Construction of critical foundations for installation of 315 mVA Transformers and other Electrical equipment at Ludhiana 400/220 kV Power Sub-Station, Ludhiana, India. Prepared contracts and tender specifications for Installation and Commissioning of major Electrical equipment.

Project Engineer

July 2011-Nov 2015
New Delhi, India

Delhi Metro Rail Corporation Ltd. (Transportation sector)

- Maintained contract documents, technical reports and data sheets, technical specifications for the metro rail track network under DMRC. Supervised and scheduled track maintenance activities during non-revenue hours.

Education

Punjab Engineering College

Bachelor of Engineering in Civil Engineering

Chandigarh, India
2005-2009

University of Maryland

Graduate Student

College Park, USA
2017-2018

Master of Science in Transportation Engineering (with Thesis)

Thesis – Currently working on formulating a collective Total Cost function for inter-regional travel by bus, with terminal located at the CBD.

Additional Information

Organizations

Member, ITS-UMD student chapter 2017-18

Member of the Campus Affairs Senate Committee at UMD (2016-17)

Member, ISTE Civil, PEC chapter, 2005-2009

Student Coordinator, National Service Scheme (NSS), 2006-2008

Awards & Certificates

Awarded College Color for leading the Hospitality Team of 150 students in PECFest 2009

Award of Excellence for outstanding work done for NSS (community service) and Rotaract Club

Software Proficiency

IHSDM, Microsoft Excel, Microsoft Word, Microsoft Powerpoint, MS Access, AutoCAD, C, Java, Powershell 5.0, Tableau, Staad Pro, Adobe Illustrator, Adobe InDesign, VISSIM (basics)