Shubham Bohra

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Summary of Qualifications

- Master of Engineering student majoring in Transportation Engineering, graduating in May 2019
- Currently working on "Design Manual adjustments for Automated Vehicles under varying levels of volume and market penetration rates" as part of M.Eng. project under the supervision of City of Toronto and Ryerson University
- Developed familiarity with design manuals including Ontario Traffic Manual (book7, book 12), Canadian Capacity Guide, Highway Capacity Manual while working on final M.Eng. project and during coursework.
- Experienced in analyzing, interpreting and visualizing Uber NYC pickup dataset using Python and QGIS, as part of directed studies project
- Enthusiastic about project management and team building through activities such as managing priority deadlines and meaningful collaboration to achieve goals
- A team member in LITrans (Laboratory of Innovation in Transportation Industry) at Ryerson University
- Registered with Professional Engineers Ontario (PEO) as an EIT (application in review)

Technical Skills

- Strong set of technical competencies include PTV VISSIM, PTV VISTRO, Synchro/SimTraffic, Highway Capacity Software, Pandas-Biogeme, QGIS, AutoCAD
- Some familiarity with PTV VISUM, Aimsun, ERDAS imagine and IBM SPSS software
- Computer Skills: Microsoft Office Suite, Google Sketchbook
- Graphic Designing Skills: Adobe Creative Cloud.
- Programming/Scripting Languages: Python

Work Experience

Research Assistant, Automated Vehicles
City of Toronto & Ryerson University   SEPTEMBER 2018 – PRESENT

- Spearheaded research initiatives on AVs in order to perform and provide technical analysis and recommendations to update the Ontario Traffic Manual
- Developed a 25-intersection downtown Toronto network using VISSIM and modelled Automated Vehicles under various market penetration rates and varying traffic volume with the current signal timings and volumes in order to understand the impact of Automated Vehicles on the network
- Producing an AV technology road map for the City of Toronto highlighting the impacts of AV technology on Ontario Traffic Manual, the City of Toronto's Infrastructure

Residential Villa Field Coordinator
Jai Sai Developers, India JULY 2016 – AUGUST 2017

- Prepared monthly and daily work breakdown structures for site activities and provided support to the Project Manager to ensure KPIs are met and to ensure timely delivery of milestone dates.
- Attended and participated in client and public meetings.
- Performed cost of material estimations/quantity takeoffs and maintained a database documenting paid vs. outstanding invoices, agreements, building permits

Internship
Jodhpur Development Authority, India JUNE 2015 – AUGUST 2015

- Underwent Summer internship on Construction of 4-lane Railway Over Bridge.
- Conducted quality inspections on materials on site and construction activities to ensure conformance to project requirements
- Responsible for estimating quantities and cost of materials, equipment, and labor to determine project feasibility
- Respectfully enforced standards while working with subcontractors to ensure that the mandates of quality management plans were achieved on site

Education

Master of Civil Engineering
Ryerson University SEPT 2017 – PRESENT

Core courses:

- Transportation Planning
- Advanced Highway Design
- Traffic Operation and Management
- Construction Project Management
- Directed studies: UBER pickup analysis for New York City

- Travel Demand Forecasting
- Urban Satellite Remote Sensing
- Urban Transport System
- Statistics

Bachelor of Technology (Hons.), Civil Engineering
Rajasthan Technical University AUGUST 2012 – MAY 2016

Volunteering Experience

- **ITS ACGM 2018, Niagara Falls, ON** JUNE 2018
  Volunteered in the latest Intelligent Transportation Systems Society of Canada Conference. The Conference was called "Mobility 2030: bridging innovation and a green future".

Memberships

- ITE (Institute of Transportation) DEC 2017 - PRESENT
- YPT (Young Professionals in Transportation) JULY 2018 - PRESENT
- TAC (Transportation Association of Canada) JULY 2018 - PRESENT

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