

## MAYUR PATEL, EIT

202 – 10 Garfella Dr  
Etobicoke, ON M9V 2E9

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April 14, 2019

**Hiring Manager,**  
30 Forensic Engineering  
40 University Avenue  
Suite 800  
Toronto, ON  
M5J 1T1

**Re: Career – Transportation Engineer, Toronto**

Dear Hiring Manager,

I am writing to apply for employment at 30 Forensic Engineering as Transportation Engineer.

As identified in my resume, I have recently attained a master's degree in Engineering from Ryerson University with a major in Transportation Engineering. I have over seven years of experience in the field of Civil Engineering in India. My academic experience has made me proficient at analysis and simulation software like Vissim, Synchro, HCS and AutoCAD. Additionally, I am a well-organized and detailed oriented individual with excellent analytical, problem solving and communication skills. My alacrity to learn will be an asset to the organization.

The foundation of skills I have acquired through my professional, academic and volunteer experiences is due to working with diverse groups of individuals and various organizations I have been a part of. I am enthusiastic about supporting 30 Forensic Engineering's values of diverse disciplines and diverse expertise.

I am confident that my knowledge, skills and background make me a key asset to your team. I welcome the opportunity for an interview at your convenience. Please feel free to contact me via email er.mayurkumar.patel@gmail.com or by phone at (647) 861 3538.

Sincerely  
**Mayur Patel**

Enclosed: Resume

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## Transportation Engineer – Toronto

Recent graduate from Ryerson's Civil Engineering program with major in Transportation, looking to leverage transferrable skills from Civil Engineering to land as an entry level Transportation Engineer

### HIGHLIGHTS

- Engineer-in-Trainee (EIT) from Professional Engineers Ontario (PEO)
- Proven knowledge of principles, theories and practice of Highway Engineering, Traffic Engineering and Pavement Engineering
- Familiarity with Ontario Traffic Manual, Highway Capacity Manual, Canadian Capacity Guide, AASHTO, Manual of Uniform Control Devices (MUTCD) and Traffic Association of Canada guidelines (TAC)
- Familiarity with Municipal Class Environmental Assessment for transportation facilities
- Excellent track record of being organized and working collaboratively within a team
- Strong communication, report writing, organization and interpersonal skills
- Valid Ontario's Driver's License Class G with reliable vehicle

### COMPUTER SKILLS

- Excellent Skills in Microsoft Office (Word, Excel, PowerPoint, Outlook)
- Drafting skills: Certification in AutoCAD 2019 essential training
- Design skills: Certification in Auto Civil3D 2019 essential training
- Database with Microsoft Access, Microsoft Excel and Statistical tool SPSS
- Traffic Engineering Tools: Synchro, HCS, Intercalc, PTV Vissim, PTV Visum and PTV Vistro

### EDUCATION

- Master of Engineering (Civil Engineering), Ryerson University, Toronto Jan 2019  
Courses: Advance Highway Geometric Design, Traffic Operations and Management, Transportation Planning, Pavement Design and Management, Statistics, Construction Administration and Management, Satellite Remote Sensing, Satellite Positioning, Water Resource System Analysis, Waste Management
- Engineering Connections Bridging Program, ACCES Employment, Mississauga Mar 2019
- Bachelor of Engineering (Civil Engineering), Gujarat University, India Jun 2001

### ACADEMIC PROJECTS – TRANSPORTATION ENGINEERING

#### Individual Research Project –

- Developed a traffic operations microsimulation model in VISSIM simulation software to evaluate and optimize intersection performance at Major Mackenzie Drive West and Ilan Ramon Boulevard, Vaughan
- Performed operational analysis to calculate delays, queues and Level of Service (LoS) to interpret the results as per Canadian Capacity Guide for Signalized Intersections

**Major Term Project –**

- Worked on analysis & optimization of Downtown Toronto Signalized Network Grid of 9 intersections using Synchro to enhance traffic operations of the network

**Other Projects –**

- Performed traffic analysis using HCM 7 software for four different case studies including signalized intersection, two-lane highway, roundabout and a ramp
- Tested various mitigation measures such as optimizing cycle lengths and green timings, changing phasing plans, changing lane configuration and a combination of these to improve deficiencies identified for real time case studies

**PROFESSIONAL EXPERIENCE****Industry Coordinator****2010 - 2015**

Venus International College of Technology, India

- Established Industry Development Unit for Civil Engineering department which generated revenue of \$120,000
- Designed, developed and managed as Head of Labs; traffic, highway and pavement Engineering for Industry Development Department which tested and approved over 50,000 test samples, consulted more than 15 projects
- Directed Capstone Projects of over twenty groups of final year civil engineering students in the field of transportation engineering, highway engineering and pavement engineering

**Civil Engineer****2007 - 2010**

LEA Associates South Asia Pvt. Ltd., India

- Reviewed development plans to determine potential traffic impact and parking demand for 38.5 km urban road which efficiently improve safety and sight distance using AutoCAD as per standards and guidelines
- Prepared administrative, technical and statistical reports on traffic operations related to accidents, safety measures and practices which presented to client
- Evaluated traffic control devices to determine need for modification which improves capacity of each intersection
- Prepared input to forecast the traffic for Ahmedabad master development plan
- Coordinated with clients, site engineers and third-party consultancies to establish engineering policies on site

**INDUSTRY ASSOCIATION MEMBERSHIP**

Professional Engineers Ontario (PEO), Transportation Association of Canada (TAC), Institute of Transportation Engineers (ITE), Canadian Society for Civil Engineering (CSCE) & Young Professionals in Transportation (YPT)