

# VIRANCH SHAH

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## EDUCATION

**New York University, Tandon School of Engineering**, Brooklyn, NY May 2017  
Master of Science in Transportation Engineering and Planning, *GPA: 3.34/4*

**Coursework:** Forecasting Urban Travel Demand, Traffic Operation & Control, Transportation & Traffic Concepts, Characteristics & Studies, Transportation Planning Principles & Practice, ITS and Multimodal Transportation Safety  
**NMIMS University**, Mumbai, India May 2015

Bachelor of Technology in Civil Engineering, *GPA: 3.04/4*

## TECHNICAL SKILLS

**Computer Software:** MS Office, Java, C++, CUBE, HCS, AutoCAD, Synchro, SolidWorks, and ANSYS

## HONORS

- Best System Safety Engineering for 1st Human Explorer Rover Challenge at NASA. 2014
- Certificate of Honor by Dr. A. N. Rai (Director, NAAC) for winning Best System Safety Engineering award 2014

## Work EXPERIENCE

**Philip Habib and Associates**, *Traffic Engineer Intern*, New York, NY Feb 2017-Present

- Conducting HCS analyze for East Harlem area in NY
- Preparing volume count on AutoCAD for East Harlem area in NY

**New York University – Tandon School of Engineering**, *Graduate Assistant*, New York, NY Sept 2016-Present

- Collecting data for pedestrians and traffic on various intersection of NYC and reducing the data collected
- Preparing literature search and using data for analysis

**New York City Department of Transportation**, *Traffic Engineer and Planner Intern*, NY June 2016-Dec 2016

- Balance pedestrian and vehicle volumes and draw numbers on AutoCAD for Downtown Jamaica Study
- Analyze Pedestrian and the LOS for corners, sidewalks and crosswalks for Downtown Jamaica Study
- Use HCS for the LOS for Downtown Jamaica, North and South Williamsburg Studies
- Analyze Crush Data for Springfield Gardens area near JFK
- Reviewed ATR and TMC data from selected intersection involving several studies

**Leela Buildcon and Infrastructure**, *Intern*, Bhavnagar, Gujarat May 2014-July 2014

- Prepared labor schedule and sub contractor bills for the workers
- Executed steel as per approved structural design
- Studied the related documents such as drawings, electrical drawings, and plans
- Checked the quality of RCC works such as foundations, columns, beams, walls and slabs

**Leela Buildcon and Infrastructure**, *Intern*, Bhavnagar, Gujarat May 2013-July 2013

- Supervised the labor work to ensure strict conformance to methods, quality and safety
- Managed the daily progress plan and execution of works as per design and drawing
- Checked the quality of steel and grade of concrete as per structural requirement, diameter shape, and cement

## ACADEMIC PROJECTS

**Managing Traffic Congestion in the City of Mumbai** Jan 2016-May 2016

Studied and compared the accessibility between the zones in the city of Mumbai were the accessibility between zones via two different modes of travel. At the end of the study some corrective measures to improve the accessibility and the average speed between the zones were suggested

**Finance in Transportation, Mumbai Metro, Mumbai** Jan 2016-May 2016

Completed detailed study of the finance of Mumbai Metro and how the public and private sector are involved in it. The Mumbai Metro is divided into three areas consisting of 9 lines. The Line 1 of area 1 was analyzed in detailed and the Line 2 and 3 with planning and funding details were described, area 2 and 3 were discussed as how the funding will address the current trends.

**Transportation Accessibility in Red Hook, Brooklyn** Aug 2015-Dec 2015

Described the existing conditions and defined the accessibility problem facing in Red Hook and set out to define the accessibility relationships between the neighborhood and other major zones in New York City.

**Saturation flow modeling at signalized interaction under mix traffic condition** Jan 2015- May 2015

Developed saturation flow model by a microscopic analysis followed by an optimization based PCU model. Calculated each case of individual flow, time headway, average time headway along with average PCU.

**Traffic Management System** Aug 2014-Dec 2014

Conducted detail study on ITS including wireless communication, computational technologies, and Bluetooth detection. The application which, uses ITS was focused on Emergency Vehicle, Notification System, Automated Road Enforcement, Variable Speed Limit.

## LEADERSHIP EXPERIENCE

- Treasurer at Graduate Indian Student Association 2016-Present
- Organizing Commissioner at NYU School of Engineering 2015-2016
- Graduate Orientation Captain for over 1300 incoming students 2016
- Technical Secretary at Students' Council 2014-2015
- Treasurer for Civil Engineering Students' Association 2014-2015