

# Shirazum Munira Shachi

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Seeking a full-time entry level position in the transportation industry with specialties in traffic data collection, studies, and design. Capable of working independently and effectively in a group and committed to providing high quality service to every project.

## EXPERIENCES

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### Research Intern

Jan 2018 – May 2018

**The City College of New York** – New York, NY

- Worked as a research intern with University Transportation Center, Region II at The City College of New York. Assisted with in field data collection for Congestion Action Plan in truck deliveries to characterize the frequencies of deliveries of different types of products and different types of businesses, the vehicle types used for these deliveries, and the parking locations and duration of delivery vehicles.

### Internship

Jun 2018 – May 2020

**New York City Department of Transportation** – New York, NY

- Worked under the supervision of an engineer to layout ADA compliant pedestrian ramps, corners, medians, neck-downs and refuge islands; and learned their construction criteria.
- Learned sidewalk project management and cost estimation.

### Mentor

Aug 2014 – May 2015

**Florida Institute of Technology** – Melbourne, FL

- Mentored a group of middle school students in the UTeach program.

## Skills

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- Knowledgeable in Microsoft Word, Power Point and Excel, AutoCAD, MATLAB, C++, R Studio, SAP 2000, HCS, VISSIM, SYNCHRO
- Strong communication skills, punctual and follow orders profoundly
- Team player, effective communicator, organized and quick learner

## Education

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**Bachelor of Engineering: Civil Engineering**

May 2020

**The City College of New York**

## Certifications

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Engineer in Training

Feb. 2020

## Research and Projects

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- **Mapping 311-reported Potholes in New York City and Understanding Impacts on Street Users (2019-2020):** Researched using NYC's open dataset that identifies the locations of 311-reported potholes for several consecutive years and its impact on everyday commuters and the environment. The research also included mapping the locations of potholes to specific roadway segments and examine the frequencies by neighborhood and specific location.

- **Traffic Analysis of an Intersection (2019):** Collected field data for three consecutive intersections, then processed and analyzed the data using SYNCHRO and VISSIM software. The results were obtained for intersection LOS, signal timing and intersection optimization.
- **Senior Design Project (2020):** Performed in horizontal and vertical alignment design of a part of Hunts Point Intersection Improvement Project. Performed in intersection design i.e. signal timing, crosswalk design and number of bike lanes for the same project using MUTCD.
- **Design of a Residential Facility (2017):** Worked with a group of peers to evaluate and design a plot of land from conception of completion for a final project. Used AutoCAD to design and draft site plans, framing plans, and various building sections.
- **Concrete Canoe Competition (2016-Present):** Participated in hands-on experience with peers at CCNY and Florida Tech to construct a concrete canoe and prepare for competition. Competed against all regional winners at nationals in 2016.

## Affiliations

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- American Society of Civil Engineers Student Chapter (2015-Present)
- Society of Women Engineers Student Chapter (2016-Present)
- Engineers without Borders USA Student Chapter (2016-Present)

## Awards and Honors

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- Received Bernard Haber scholarship from The City College of New York (January 2019)
- Received David Dwight Eisenhower Fellowship by Federal Highway Administration (FHWA) (January 2020)
- Dean's list of Florida Institute of Technology (Aug. 2014 – May 2015)