

Kashif Mahmood, E.I.T.

37 Fairfield Drive, Dix Hills, New York, 11746

Email: kashif31591@gmail.com

Phone: 330-212-8829

SUMMARY

Transportation / Traffic Engineer with comprehensive background in design, modeling, analysis and maintenance of traffic operations with a goal to establish a career as a Licensed Transportation Engineer.

| | | | |
|-----------------------|---------------|------------------|------------------|
| Traffic Signal Design | MOT/MPT Plans | Impact Studies | Accident Studies |
| Modeling | Ramp Metering | Data Collections | Data Analyses |
| Parking Studies | Microstation | AutoCAD | Synchro |

PROFESSIONAL EXPERIENCE

Gedeon GRC Consulting, Syosset, NY (March 2018 - Present)

(Traffic Engineer)

- Developed Traffic Signal Design Plans, Electrical Plans, sequence tables, phasing diagrams, wiring tables and estimates according to the standards of NYCDOT, NYSDOT, NJDOT, NCDPW and SCDPW.
- Developed Maintenance and Protection of Traffic (MPT) drawings for NYCDOT, NYCDDC, NYSDOT and NCDPW.
- Performed Traffic Impact Studies, Accident Analysis using HSA, Span Wire Analysis for signals and developed reports and collision diagrams.
- Gained experience in Synchro, Microstation, AutoCAD and Autoturn.

KLD Engineering P.C, Islandia, NY (Aug 2016 - Feb 2018)

(Traffic Engineer)

- Developed Synchro and Aimsun simulation models for local and international projects.
- Conducted supervision for Origin-Destination (O/D) and data collection surveys.
- Compiled and reduced traffic data and wrote reports for several projects.
- Conducted Ramp Metering studies, Speed Delay runs, Parking Studies and assisted in generation of signal timing plans.
- Presented in sub-consultant companies as part of explanation of project procedure and involved in training Surveyors for Data Collection and Truck O/D and Bus Passenger O/D surveys.

Civil Engineering Department, The University of Akron, Akron, Ohio (Jan 2015– May 2016)

(Research Assistant)

- Presented Master's thesis on optimization of Adaptive Metering on roundabouts using VISSIM.
- Conducted a class project on Geometric design of a road (with alignments), Traffic signal warrant study, designed signal timing with pedestrian indications and signal co-ordination through Space-Time diagrams.
- Assisted in an ODOT project on Pavement Marking Evaluation.
- Used various detection technologies such as Laser Gun, Pressure Tubes, Vehicle Loop Detectors, Bluetooth Device, Video Imaging, etc.

Architectural Design Group, Hyderabad, India (Feb 2013- Dec 2013)

(Junior Engineer)

- Conducted Structural Analysis and designed multi-storey buildings (manually and using STAAD.Pro).
- Designed the Foundation and an overhead tank for a 3-story building.
- Performed site investigation and planning under the guidance of senior engineers.
- Performed Construction supervision for quality control.
- Prepared drawings and specifications using AutoCAD.

PROJECTS

- **Nassau Expressway Operational and Resiliency Improvements, Nassau County (Awarded ASCE Long Island project of the year Highways award, 2020):** A design-build project with over 6 stages of construction each of which required Signal Design and work zone traffic control for 3 intersections on Nassau Expressway. Responsible for site visits, designing the traffic signals, creating sequence tables and the phasing diagrams, quantity estimates and work zone traffic controls.
- **Suffolk County Red Lights Camera Program, Suffolk County, 2018:** Responsible for literature review of clearance time calculation by FHWA, ITE and various other states, visit to over 60 intersections in Suffolk county and noting down the clearance time interval data from each controller and calculation of clearance times and analysis with collected data.
- **Grand Avenue Complete Street Design, Nassau County, 2019:** Work involved, site visits and Signal Design for 11 intersections in Nassau county, removal plans, creating sequence tables, making phasing diagrams and calculating quantity estimates.
- **Dutch Broadway Accident analysis, Dutch Broadway, Elmont- Nassau County, 2019:** Work involved Accident analysis using HSA and plotting signs and accidents in Microstation.
- **5th Avenue Bridge Reconstruction, Brooklyn:** Work involved data reduction, calculation of PHFs and percentage heavy vehicles, generation of volumes tables with respect to future conditions, Synchro analysis, Maintenance and Protection of Traffic plans (MOT/MPT), Signal Design according to the standards of NYCDOT.
- **Port Authority of New York & New Jersey's (PANYNJ) Trans-Hudson Truck O/D Study, 2017:** The largest Truck O/D study in the NYC area for the trucks that traverse the Trans-Hudson. The USDOT numbers of the trucks were captured through cameras and

their owners were called for surveys. Additionally the truck drivers were handed surveys while they stopped on the tolls. The data was analysed and maps were created to showcase the truck origin and destination. Helped in report writing.

- **PANYNJ's Newark Airport Data collection, 2017:** Worked as a traffic engineer in collection of ATRs, TMCs, Vehicle classifications and queue counts. Responsibilities included complete field supervision, processing the data and writing a report.
- **PANYNJ's JFK Airport Bus passenger O/D Study, 2017:** Worked as a Traffic Engineer and primary field supervisor. Work involved in training surveyors for the bus passenger O/D survey. Also dealt with data compilation, analysis and report writing.
- **New York State Department of Transportation's (NYSDOT) Region 10 Integrated Corridor Management:** Conducted crash data analysis using the TRANSCOM data, developed synchro models for corridors in Suffolk county.
- **Future geometric modeling for East Midtown, Manhattan (East Midtown Traffic Study):** Compiled and reduced the ATR and TMC data for midtown Manhattan. Responsibilities included mapping AIMSUN IDs to the flowmaps, compiling data with the study area and modeling future geometric conditions in the macro simulation AIMSUN model.
- **Ar Riyadh Advanced Traffic Control System, Riyadh, Saudi Arabia:** Developed Aimsun models for select corridors in Riyadh, Saudi Arabia.
- **MetLife Stadium Parking Study, New Jersey:** Primary work involved observing the sky comp images of the Met life stadium parking lots and analyzing the time it took for the ingress and the egress of the traffic during both Jets and Giants game.
- **New York City Department of Transportation's (NYCDOT) NYC corridor re-timings:** Assisted in the generation of signal timing sheets. Worked with IQ-link to update timing plans. Performed speed delay runs for projects in and around New York City and was involved in post run analysis and discussion with senior engineers.
- **Ohio Department of Transportation's (ODOT) pavement marking evaluation (research).**
- **Adaptive metering of roundabouts, Akron, Ohio (research).**

EDUCATION

- Master of Science, Civil Engineering (Transportation), University of Akron, GPA 4.0/4.0, Aug 2016.
Thesis: Improving roundabout performance using Adaptive Metering technique (using VISSIM)
- Bachelor of Engineering, Civil Engineering, Osmania University (India), May 2013.
Project: Analysis and design of a multistory residential building

SOFTWARE SKILLS

- | | |
|-----------------|-------------|
| ● MS Office | ● VISSIM |
| ● AutoCAD | ● Aimsun |
| ● Micro Station | ● HSA |
| ● HCS | ● STAAD.Pro |
| ● Autoturn | ● Primavera |
| ● Synchro | ● Arc-GIS |

ADDITIONAL INFORMATION

- Strong background in Transportation Engineering (Traffic Engineering, Highway Design, Transportation Planning, Pavement Engineering).
- Available for both design work at the office and inspection/site work.
- Apart from English, I can read, write and speak in Urdu, Hindi, and can read Arabic (actively learning).
- Willing to relocate anywhere in the USA.
- An energetic and goal-oriented individual working towards registration as a Professional Engineer within a year.

CERTIFICATIONS

- Passed Fundamentals of Engineering (FE/EIT) Exam by NCEES, Jan 2016.