

# SHAIK SHAZAIB

**Traffic Engineer & Transportation Planner | QA/QC Inspector**

**SCE (Saudi Council of Engineers valid until 5/4/2026) Certified | 5+ Years of Experience**

**Visa: Valid and Transferable | Riyadh-KSA**

+966 556400821 | [shaikshazaib933@gmail.com](mailto:shaikshazaib933@gmail.com) | [LinkedIn: shaik-shazaib-09583a177](https://www.linkedin.com/in/shaik-shazaib-09583a177)

## PROFESSIONAL SUMMARY

A Transportation Engineering professional with experience in traffic engineering, transportation planning, and road infrastructure development. I have led traffic flow simulations, microsimulation modelling, and congestion mitigation using tools like PTV Vissim, Synchro, SIDRA, VISUM, and HCS. My project experience includes analysing corridor performance, modelling signalised intersections, and developing traffic management solutions to improve safety, capacity, and mobility. I have expertise in traffic data analysis, intersection design, signal coordination, and planning. With 5 years of experience in traffic engineering, transportation planning, and QA/QC for road projects, I support both traffic solutions and construction quality. My skills also include highway alignment and pavement design using AutoCAD, Civil 3D, and IIT Pave, supporting a comprehensive approach to transport infrastructure. Dedicated to efficient and safe transportation solutions with high-quality standards.

## EDUCATION

### **Master of Engineering in Transportation Engineering**

Osmania University, Hyderabad

November 2022 – November 2024

### **Bachelor of Engineering in Civil Engineering**

ISL Engineering College, Hyderabad

August 2015 – July 2019

## TECHNICAL SKILLS & CERTIFICATIONS

- Software: PTV Vissim, VISUM, Sidra, Synchro, HCS, AutoCAD, IIT Pave, Civil 3D
- Programming Languages (Basic): C, Python
- Productivity Tools: MS Word, Excel, PowerPoint
- Trained in Highway Engineering: Detailed Project Reports (DPR) & Highway Design

## AREAS OF EXPERTISE

### ❖ **Microsimulation and Traffic Systems Analysis**

- Manage links, connectors, routing decisions, vehicle inputs, and traffic compositions in microscopic traffic flow simulation.
- Configure geometric layouts, signal phasing, and optimize signal timings for efficient traffic flow.
- Perform traffic analysis and congestion mitigation, including TIA, turn lanes, signal changes, access control, and data evaluation through simulations.
- Develop calibrated microsimulation models under mixed traffic conditions, including vehicle types, driving behavior, and parking analysis.
- Analyze pedestrian movements, bus stops, multimodal integration, and parking demand.

### ❖ **Quality Assurance and Quality Control in Road Construction Projects**

- Expertise in implementing QMS for road infrastructure projects and material testing (Proctor, CBR, sieve, Marshall) for concrete, soil, asphalt, and steel.
- Skilled in QA/QC for utilities (sewer, water, electrical, telecom, ITS) and proficient in PQPs, ITPs, Method Statements, and QA documentation.
- Adept at managing non-conformities, root cause analysis, corrective actions, and using KPIs to monitor and improve quality.

### ❖ Highway and Pavement Design

- Expertise in highway planning, alignment, and DPRs. Skilled in traffic analysis (PCU, CVPD, MSA) and pavement design (flexible and rigid).
- Proficient in designing interchanges, culverts, and drainage systems, and using Civil 3D for geometric design, alignment, and earthwork.

## PROFESSIONAL EXPERIENCE

**Unity Constructions Pvt Ltd** — Doha, Qatar

November 2019 – February 2025

### Role: QA/QC Engineer

- Led 15-member team, ensuring timely, quality-compliant operations.
- Supervised site work, material tests, and utility inspections.
- Managed quality plans, non-conformities, ensured high-quality delivery with KPI tracking.

### Role: Traffic Engineer and Transportation Planner

- Studied traffic congestion, delays, capacity, and volume across corridors and intersections.
- Collected and analyzed traffic data via manual counts and video for congestion assessment.
- Developed calibrated PTV VISSIM microsimulation models under mixed traffic conditions.
- Designed signal timings and phases using Synchro for smooth intersection flow.
- Modelled scenarios for road widening, one-way conversion, and new Road Over Bridge.
- Conducted Traffic Impact Assessments (TIA) to evaluate development impacts and propose mitigation (turn lanes, signal changes, access control).
- Proposed lane optimization, channelization, and public transport priority to reduce congestion.
- Assessed pedestrian movements, bus stops, and multimodal integration for safety.
- Analyzed parking demand and circulation in high-density zones.
- Compared before-and-after performance using VISSIM metrics to support decision-making.

**Unity Constructions Pvt Ltd** — Hyderabad, India

### Apprentice Site Engineer

August 2017 – October 2019

- Assisted with site operations and inspections.
- Supported report preparation and documentation.

## HARD SKILLS

- **Traffic Simulation:** Vehicle modelling, intersection control, congestion analysis.
- **QA/QC:** Testing, inspection, non-conformance, QMS, quality monitoring.
- **Pavement Design:** Flexible and rigid pavement design using codal provisions.
- **Project Documentation:** Preparing DPRs, QA/QC reports, method statements.
- **Report Writing & Coordination:** Technical documentation, inter-team communication.

## WORKSHOPS

- Advancing Traffic Safety Using ADAS & DMS Systems – IIT Hyderabad
- Field Demonstration of Falling Weight Deflectometer & Network Survey Vehicle – Osmania University.

## LANGUAGES

- English, Arabic (Basic), Urdu, Hindi, Telugu, Urdu.

## REFERENCES

Available Upon Request