

Syed Faraz Abbas Rizvi

Karachi Pakistan

+92-336-3512247 | abbasfaraz121@gmail.com | <https://www.linkedin.com/in/faraz-abbas-3a29111b6>

Personal Profile

I am deeply fascinated by transportation engineering and harbor a strong inclination towards the development of intelligent transportation systems, traffic simulation, and artificial intelligence and machine learning in the context of transportation engineering. My research interests lie in exploring innovative ways to address real-world challenges in the field. I am driven by the prospect of creating sustainable and efficient transportation systems that can promote economic growth and enhance social well-being. I am actively seeking opportunities to apply my skills and expertise in these areas, and I am eager to expand my knowledge and contribute to the field's advancement.

Education

NED University of Engineering and Technology

BE in Civil Engineering

Karachi, Pakistan

Oct 2018 - Oct 2022

Government Degree College Malir Cantt

Intermediate in Pre-Engineering

Karachi, Pakistan

June 2016 - July 2018

- Passed with A-Grade

Work Experience

ATLAS LAB NEDUET

Research Assistant

Karachi, Pakistan

Nov 2022 - Current

- Prepare road improvement plans for 10 major roadways including NH5, Shahrah-e-Faisal and M.A Jinnah road etc under Toyota Company CSR project.
- Develop Existing and proposed road geometry using Civil 3D.
- Real time traffic Count Surveys using Cameras and UAV.
- Manual extraction of essential parameters from videos i.e Speed, Flow and Density for the development of fundamental diagrams and traffic simulations.
- Develop simulation models on PTV VISSIM of both existing and proposed scenarios
- Conduct Road Safety Audit.
- Supervise undergraduate thesis.
- Contribute to the research and writing of a paper.
- **Technical Skills:** PTV VISSIM, Civil 3D, Python, Microsoft office and Advance Excel.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Nordtec International

Site Internee

Karachi, Pakistan

Dec 2021 - Feb 2022

- Worked on BOQ, reading drawings and sketching of drawings by using AutoCAD.
- Prepared BBS for column, beam and Slab.
- Conducted detailed analysis and calculations to estimate the required quantity of steel and concrete.
- **Technical Skills:** Microsoft Excel and AUTOCAD.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills and adaptability

University Projects

Modeling behavior of traffic at roundabout

NED University of Engineering and Technology

Karachi, Pakistan

July 2021 - Mar 2022

- Reconnaissance surveys of more than 10 roundabout of Karachi City has been done in order to find out study area.
- Used UAV drone to record live traffic stream of roundabout.
- Manual extraction of essential parameters from videos i.e Speed, Flow and Density for the development of fundamental diagrams and traffic simulations.
- Studied merging behavior of motorcycle and car at roundabout.
- Developed regression models
- One of the best transportation software "PTV VISSIM" is used in modeling of roundabout.
- **Technical Skills:** PTV VISSIM, MATLAB, Microsoft office.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

Volunteering

Institute of Transportation Engineers (ITE) NEDUET Society

Karachi, Pakistan

NED University of Engineering and Technology

Jun 2019 - Feb 2020

- Arranged the event under the title " Intelligent Transport System (ITS)"
- Demonstrated strong leadership skills by effectively delegating tasks to team members, providing guidance and support as needed, and ensuring the project was completed on time and within budget.
- Coordinated with external stakeholders, including industry professionals and government agencies, to secure sponsorship and support for the event.
- Managed event logistics, such as venue booking, equipment rental, and catering arrangements.

Member of the Team Membership

Karachi, Pakistan

Non-Profit Coaching Centre

Dec 2019 - current

- TIPS foundation is an organization that provides education to underprivileged children.
- Instructed 70+ students and helped them pursuing professional degrees.
- Supported student teachers by mentoring on classroom management, lesson planning, and activity organization.
- I was also involved in conducting examinations of various subjects on campus.
- Developed and optimized a rich learning environment by capitalizing on diverse engagement strategies and enriching teaching techniques, nominated as the best teacher

Mathematics Teacher

Karachi, Pakistan

Mathlers Society

Jan 2017 - current

- Taught mathematics just like a game to 150+ secondary school students in different regions of Karachi.
- Managed different functions like planning, conducting as being a member of the working committee.

Skills

Programming Python and MATLAB.

Miscellaneous Microsoft Office, MS Project, ETABS, MATLAB, AutoCAD, Civil 3D, PTV VISSIM, Primavera.

Soft Skills Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation

Certifications

2021 **Certificate of appreciation**, Road Safety Seminar

Pakistan

2021 **Best Player**, Inter University Cricket Tournament

Pakistan

2022 **Overall 6.0 Bands(6.0 in each)**, International English Language Testing System (IELTS)

Pakistan

2023 **Python for Data Science, AI**, IBM

Pakistan

Languages

English B2 Level

Urdu Native proficiency

References available upon request.