

FARAH KHAN

farah.iftikhark@gmail.com

[linkedin.com/in/farah-khan-007/](https://www.linkedin.com/in/farah-khan-007/)

Professional Experience

Advanced Traffic Lab for Analytics and Simulation (ATLAS), NED University

Transportation Engineer: Dec 2022 – Present

Projects currently involved in:

1. **Toyota Road Improvement Project (TRIP)** (Client: Toyota Indus Motor Company Ltd)
 - Involved in critical evaluation of 10 major arterials in Karachi for road safety improvement
 - Leading in the community work for training school-going children for road safety awareness among young minds
2. **Modal Shift Analysis on Green Line BRT** (Final year project Co-supervisor)

Afzal Associates

Junior Design Engineer: Feb 2021 – Nov 2022

- *Design Skills:* Involved in detailed engineering design for road, water supply and sewerage design on Civil 3D for infrastructure development projects of **Sindh Employee Housing Society** and **Mini Karachi Smart City**.
- *Design Inspection:* Performed site surveys to physically inspect **Children's Emergency Units, Childlife in Hospitals of Karachi**
- *Writing Skills:* Involved in technical documentation and report writing for infrastructural design project **Establishment of Industrial Estate in Turbat, Gwadar, Balochistan**.

Advanced Traffic Lab for Analytics and Simulation (ATLAS), NED University

Research Assistant: Nov 2020 - Jan 2021

- *Research Skills:* Assisted in a research project '**Impacts of COVID-19 on Travel and Mobility of Elderly and Disabled people**' funded by UKAID and HVT.
- *Technical Skills:* Performed report writing, data collection, and analysis for the project. Analyzed the data surveyed from 400+ people of two cities Lahore and Karachi

Pakistan Civil Aviation Authority (PCAA)

Intern: Sep 2019

National Engineering Service Pakistan (NESPAK)

Intern: May 2019 – June 2019

Six Sigma Consultant

Intern: Sep 2018 – Oct 2018

Education

NED University of Engineering and Technology (Gold Medalist)

Bachelor of Urban and Infrastructure Engineering

2016-2020

Professional Development

Completed various courses from different online platforms. (From June 2021 – July 2021)

- Transport Systems: Global Issues and Future Innovations (**University of Leeds via Future Learn**)
- Road Safety Engineering (**European Bank for Reconstruction and Development**)
- TRANSIT01x: Urban Transit for Livable Cities (**University of Pennsylvania via Edx**)
- Gender Equality in Transportation (**World Bank Group and UN-Women**)
- Certificate in Transportation Engineering – Level 2 (**Brit Academy for Training via Study365**)

Academic Experience

Amal Academy (Graduated with Highest Honors)

Career-Prep Fellow: Oct 2019 – Dec 2019

- *Communication:* Completed a competitive written application and interview process to be selected from over 4500 applicants for an intensive 3-month Fellowship funded by Stanford University
- *Skills development:* Invested 150 hours to develop business skills (e.g., communication, leadership, problem-solving, teamwork, etc.)
- *Management:* Managed to complete 12 project works assigned via teachable and google classroom

Final Year Project

Project Name: Evaluation of the Infrastructure and Demand of BRT Green Line Project Karachi

- *Cost-Effective Alignment:* Proposed new alignment of a segment which is 2.3 times lesser compared to existing for one of the segments of Green-Line.
- *Extra Mile:* Visited Lahore Metrobus and collected data from Punjab Mass Transit Authority and gained knowledge about operational BRT of Pakistan.

Research Publications

- Ahmed A., **Khan F.**, Ahmed M., Ismail M. A. and Ahmad N., “Exposure of Road Users to the Traffic Noise in Urban Environment- Insights from a Mega Metropolitan City” International Journal of Environmental Science and Technology. April 2023 (<https://doi.org/10.1007/s13762-023-04924-7>)
- **Khan F.**, Ahmed A., Ahmed M., and Baig M. A. U., “An Evaluation of Cost Optimization Strategies for BRT Projects in Pakistan”, Eng. Technol. Appl. Sci. Res., vol. 12, no. 4, pp. 8825–8830, Aug. 2022. (<https://doi.org/10.48084/etasr.4956>)

- Rahman M.S., Ahmed A., Timms P., Anwer I., **Khan F.**, Examining the Impacts of Restrictions Due to COVID-19 on Mobility of Elderly and Physically Challenged People in Megacities of Pakistan. Proceedings of 2021 EASTS Conference Hiroshima, Japan.

Extracurricular Experience

- Speaker and organizer in Seminar 'Empowering Women's Perspective' 2023
- Participated in Road Safety Seminar 2018
- Participated in Workshop on 'Karachi Mass Transit-An Overview' 2019
- Participated in International essay competition 'Creating a Society Full of Kindness'
- Participated in essay competition 2018 'To China, With Love' organized by Pak-China Institute

Additional

- *Interests:* Cycling, Reading, Sketching, Painting
- *Skills:* AutoCAD Civil 3D, PTV Vissim, ArcGIS, Microsoft Office, Google Earth Pro, Primavera, MATLAB, Python