

**PERSONAL
INFORMATION**



MIRZA ASAD ULLAH BAIG

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Date of Birth: 07/04/1993 | Nationality: Pakistani | CNIC: 42101-9595020-5

OBJECTIVE

Continually striving to enhance the knowledge and skills and to acquire a challenging position that will provide constant personal development.

WORK EXPERIENCE

<p>November 2021 to Present</p>	<p>Lecturer Urban Engineering Department, NED University of Engineering & Technology</p> <p>Courses taught: (Theory)</p> <ul style="list-style-type: none">• Planning & Design of Transportation Systems• Reinforced Concrete Design-1• Engineering Surveying-1• Engineering Drawing-1• Fluid Mechanics-1• Analysis of Structures• Urban Mass Transportation <p>Courses taught: (Practical)</p> <ul style="list-style-type: none">• Planning and Design of Transportation System• Traffic Engineering and Management• Traffic Impact Study• Urban Hydrology and Municipal Engineering• Mechanics of Solids-1• Engineering Drawing-1• Engineering Surveying-1
<p>April 2019 to October 2020</p>	<p>Research Assistant Urban Engineering Department, NED University of Engineering & Technology</p> <p>Affiliated Lab: Advance Traffic Lab for Analysis and Simulation (ATLAS)</p> <p>Research objectives:</p> <ul style="list-style-type: none">• Developing traffic flow models to model the local heterogeneous and undisciplined traffic streams;• Evaluating the accuracy of the existing technologies to measure the accuracy of undisciplined traffic streams;• Developing indigenous solutions and technologies to measure real-time traffic conditions;• Developing smart (adaptive) traffic signals and implementation of smart signals in Karachi;• Evaluating the current transport system in Karachi and developing policies to improve the design and operations of public transport;• Modeling the behaviour of drivers in mixed traffic streams.

PERSONAL SKILLS

- Technical writing and good communication skills
- Committed to work in project deadlines and schedule
- Hardworking, kind and trustworthy
- Ability to work in a team
- Determination in achieving the goals

COMPUTER SKILLS

- Primavera P6
- Ms. Office
- E Tab
- AutoTurn
- Ms. Project
- AutoCAD Civil 3D
- MATLAB
- VISSIM
- AutoCAD
- Arc GIS
- SPSS
- EaglePoint

ADDITIONAL INFORMATION

PUBLISHED PAPERS	<ol style="list-style-type: none">1. Ahmed, A., Ngoduy, D., Adnan, M., & Baig, M. A. U. (2021). On the fundamental diagram and driving behavior modeling of heterogeneous traffic flow using UAV-based data. <i>Transportation Research Part A: Policy and Practice</i>, 148, 100-115.2. Ahmed, A., Mehdi, M. R., Baig, M. A. U., & Arsalan, M. (2022). The assessment of sustainability of freight transportation in Pakistan. <i>Iranian Journal of Science and Technology, Transactions of Civil Engineering</i>, 46(3), 2593-2608.3. Khan, F., Ahmed, A., Ahmed, M., & Baig, M. A. U. (2022). An Evaluation of Cost Optimization Strategies for BRT Projects in Pakistan. <i>Engineering, Technology & Applied Science Research</i>, 12(4), 8825-8830.4. Ahmed, A., Noman, S. M., Baig, M. A. U., Ngoduy, D., Adnan, M., Ismail, M. A., & Qadir, A. (2022). Estimating passenger car equivalent factors for heterogeneous traffic using occupancy-density linear regression model. <i>Transportation research record</i>, 2676(8), 209-220.
FINAL YEAR PROJECT	The Preliminary Design, Operational Planning and Business Planning Strategy of Bus Rapid Transit – A Case Study of Blue Line BRT Karachi Department of Urban and Infrastructure Engineering, NEDUET, Karachi
SEMINARS	<ul style="list-style-type: none">• Attended ENTECH PAKISTAN 2013 – “An IEP Exhibition”, Fourth International Symposium on “Infrastructure in developing countries & 6th International Civil Engineering Congress• Attended and volunteered one week articulated training of Police Officers, Transport Officials and Road users of various modes of Public Transport organized by PAKSTRAN-CIU at NED University.• Attended 4th conference of CMRG (Construction Management Research Group)• Attended the “Seminar on Green Line and Orange Line with its need and effects on Karachi City” organized by Institute of Engineers Pakistan.
MEMBERSHIPS	<ul style="list-style-type: none">• Member of IEP (Institute of Engineers Pakistan)• Member of IGS (International Geosynthetic Society) Pakistan• Member of ACI (American Concrete Institute) NED Chapter
REFERENCES	Personal and professional references will be furnished upon request