

TOWFIQUR RASHID

UNDERGRADUATE STUDENT

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School Address: Kazla, Rajshahi-6204, Bangladesh.

Permanent Address: Golapganj, Sylhet, Bangladesh.

SUMMARY

As an enthusiastic urban planning undergrad, I thrive on research challenges. My days are a delightful blend of spatial and statistical analyses. Passionate about contributing to scientific advancements by applying my research skills in a dynamic and collaborative environment.

EDUCATION

Rajshahi University of Engineering & Technology (RUET)

March 2022 - Present

Bachelor of Urban & Regional Planning

- Currently enrolled in 4th Year Odd Semester
- Cummulative GPA: 3.63/4.00 (Placed 8th out of 58 students)

Notre Dame College, Dhaka

July 2018 - Jan 2021

Higher Secondary School

- Grade Point Average: 5.00/ 5.00
- Section: Science

RESEARCH EXPERIENCE

INTERNATIONAL PARTICIPANT

July 2025

International Climate Camp 2025, Nepal

- Participated in a 5-day residential program (July 4-8, 2025) organized in collaboration with Mission Green Bangladesh, BRAC University, North South University of Bangladesh, and Kathmandu University, Tribhuvan University of Nepal.
- Engaged in fieldwork, trekking, hands-on sustainability training, cross-cultural engagement, expert sessions, workshops, policy dialogues, and community-based actions focused on climate change and sustainable solutions

RESEARCH ASSISTANT

Nov 2024 - April 2024

Direktorate of Research & Extension, Rajshahi University of Engineering & Technology

- Name of the research project: "*A Comprehensive Analysis of Integrated Approaches to Groundwater Management: A Case Study of the Northern Region in Bangladesh*".
- Conducted extensive literature review, multi-source data collection (surveys, FGDs, KIIs, PRA), field observations, stakeholder consultations, and hydro-socioeconomic analysis to develop integrated groundwater management strategies for northern Bangladesh.

PUBLICATIONS

Assessment of Intersection Performance Using Traffic Volume and Land Use-Transportation Relationship: Evidence From Rajshahi, Bangladesh

Feb 2026

Flash Flood Hazard Assessment Using a GIS-Integrated Fuzzy AHP-MCDA to Inform Nature-Based Solutions in Feni and Noakhali, Bangladesh

- Published at '8th International Conference on Civil Engineering for Sustainable Development (ICCESD 2026)', Khulna University of Engineering & Technology, Khulna, Bangladesh

A Remote Sensing-Based Analysis of Nighttime Light Pollution and Its Regional Spillover Effects in Dhaka

April 2025

- Published at '8th International Conference on Engineering Research, Innovation & Education 2025 (ICERIE 2025)', Shahjalal University of Science & Technology, Sylhet, Bangladesh

Exploring Challenges and Opportunities in Community- Based Rural Tourism: A Stakeholder Perspective from Naogaon, Rajshahi, Bangladesh

Feb 2025

- Published at '10th International Integrative Research Conference on Governance in Society, Business, and Environment 2025', Bangladesh Academy for Rural Development, Cumilla, Bangladesh

Revitalising Urban Accessibility: Creating A Pedestrian Precinct From Zero Point to Moni Chattor In Rajshahi City, Bangladesh

Dec 2024

Investigating The Effects of Urban Sprawl from Social and Environmental Perspective In Katakhalii Municipality, Rajshahi

- Published at '7th International Conference on Advances in Civil Engineering 2024', Chittagong University of Engineering & Technology, Chattogram, Bangladesh

PROFESSIONAL EXPERIENCE

ATC TECH LTD, Intern, Rajshahi Hi-Tech Park, Rajshahi, Bangladesh

March 2025

- Use of Artificial Intelligence and Machine Learning in Transportation Planning
 - Image Classification using Pytorch
 - Vehicle Identification using OpenCV and YOLOV8

LEADERSHIP EXPERIENCE

RUET GIS Club, Vice President, Rajshahi University of Engineering & Technology

July 2025 - Present

- Joined at 2023, promoted to this post from Assistant General Secretary

Department of Urban & Regional Planning, Class Representative, Rajshahi University of Engineering & Technology

Sep 2024 - Present

- Elected by 58 students as leader of class due to good understandings with teachers.

HONORS AND AWARDS

Urban Development Directorate, Ministry of Housing and Public Works, Government of Bangladesh, 2nd Position, Dhaka, Bangladesh

May 2025

- Our team has secured 2nd position among 60 teams at the "Youth's Idea at Sustainable Urban Planning- 2025" competition.
- We have pitched our idea on 'The Economic Utilization of the Karnaphuli Tunnel with a Balanced Approach to Economic Growth and Ecological Preservation'.

Bangladesh University of Professionals (BUP) Research Society, 2nd Runner-Up, Dhaka, Bangladesh

May 2024

- Our team secured 2nd Runner-up position in '3rd National Research Project Contest 2024' amidst 88 competitors hailing from 31 universities throughout Bangladesh.
- The research paper was on 'Social and Environmental Impact Assessment of Urban Sprawl in Katakhalii Municipality of Rajshahi, Bangladesh'.

SKILLS

- Spatial Analysis:** ArcGIS Pro, Google Earth Engine (GEE), Google Earth Pro, ESRI CityEngine, QGIS, QField
- Data Collection and Analysis:** Kobo Toolbox and Kobo Collect, IBM Statistical package for Sciences (SPSS)
- Advanced Computer Skills (Beginner Level):** Python (Pandas, Matplotlib, Seaborn, Pytorch Tensorflow), Machine Learning, OpenCV, YoloV9
- Photogrammetry Survey:** DroneDeploy, Drone Operation
- Design and Planning:** AUTOCAD MAP3D, AUTOCAD - 2D + 3D, Modelur, SketchUP, ENSCAPE, TWINMOTION
- Traffic Simulation:** PTV VISSIM

ADDITIONAL INFORMATION

- **Languages:** English, Bangla.
- **Membership:** Institute of Transportation Engineers (ITE), Washington DC, USA
- **Certifications:** Professional Drone Survey