

JOY BISWAS

Urban Planner & GIS Specialist

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Professional Summary

I am a results-oriented Urban Planner and GIS specialist with over **8 years** of practical experience in urban policy, design, and geospatial solutions. I have managed large-scale government projects with budgets exceeding **\$11 million** and have learned about global planning cultures by completing more than **500** cartography projects for international clients. My main strengths are spatial analysis, sustainable development, and public participation, supported by advanced technical proficiency in **ArcGIS, AutoCAD, Python, and Adobe Creative Suite**. I am now seeking to pursue graduate studies to enhance my expertise further and acquire new competencies in geospatial technology and urban planning.

Professional Experience

Sheltech (Pvt.) Ltd.

Dhaka, Bangladesh

Assistant Manager

10/2021-Present

- Policy Implementation: Translated the Dhaka Detailed Area Plan (2022-2035) into practical real estate strategies, managing FAR calculations and land-use compliance for major projects.
- Strategic Analysis: Conducted socio-economic surveys and development trend modeling to guide investment decisions for upcoming urban developments.
- Master Planning: Developed 20-year zoning and land-use strategies for the Basail and Elenga Pourashava Master Plans (2024-2044) using GIS spatial analysis socio-economic research and scenario-based zoning land use strategies.
- Project Oversight: Led feasibility studies and stakeholder consultations for the Chakaria Government Shrimp Estate Master Plan, securing all regulatory approvals.
- Quality Leadership: Served as Lead Internal Auditor for ISO 9001: 2015 compliance, ensuring all departmental outputs met international quality standards.

Nasrul Hamid Foundation

Dhaka, Bangladesh

Urban Planner

01/2021-10/2021

- Regional Connectivity (Keraniganj Road Project): Managed a \$9M (BDT 1090 Crore) infrastructure initiative covering 21.6 km. I spearheaded the Development Project Proposal (DPP) and feasibility studies and secured ECNEC approval process.
- Climate Resilience: Led the integrated planning and shore protection for the \$12M Shuvadhhya Canal Restoration project. I focused on balancing urban drainage needs with ecological preservation and sustainable shoreline engineering.
- Data Acquisition & Survey Leadership: Led the technical teams for topographic and digital surveys. I translated raw soil test reports and spatial data into the foundational engineering designs required for high-stakes urban projects.
- Precision Site Selection: Utilized GIS modeling and drone-captured imagery to conduct suitability analysis for the Jhilmil Model Mosque and regional health facilities. This ensured public infrastructure was placed in high-access, low-risk zones.
- Social & Environmental Compliance: Authored EIA/ESIA reports and facilitated community-based planning (FGD/PRA). I acted as the bridge between technical engineering requirements and local government/community interests.

Fiverr

Remote

Freelance Urban Designer

01/2019 – Present

- Global Project Management: Independently managed a diverse portfolio of 500+ cartography and urban design projects for a global client base, maintaining a 100% delivery rate and high-level client satisfaction.
- Specialized Spatial Communication: Translated complex urban data into high-quality vector maps, including site master plans, event logistics layouts, and architectural floor plans, tailored for executive presentations and technical reports.
- Multi-Platform Technical Mastery: Leveraged an integrated workflow across Adobe Creative Suite (Illustrator/Photoshop), ArcGIS, and AutoCAD to produce precision graphics for both digital and high-resolution print media.
- Cross-Cultural Planning Insight: Coordinated directly with international clients to adapt spatial designs to varied global planning standards, honing a unique perspective on international urban trends and user-centric design.

Sheltech (Pvt.) Ltd.

Remote

Assistant Urban Planner

12/2018-12/2020

- Data-Driven Decision Support: Conducted GIS mapping and geo-spatial field data collection to provide visual intelligence for high-level executive decision-making.
- Socio-Economic Modeling: Utilized SPSS to design and analyze complex demographic data, translating statistical findings into strategic reports and progress outcomes for senior management.

- Market Intelligence & Feasibility: Performed market research and project feasibility studies to validate new urban initiatives, ensuring alignment with economic trends and stakeholder needs.
- Performance Monitoring: Developed Management Information System (MIS) and client feedback reports to track project performance and maintain high standards of service delivery.

Development Design Consultants Ltd. (DDC)

Junior Urban Planner

Dhaka, Bangladesh

03/2017-11/2018

- Strategic Policy Contribution: Contributed to the formulation of the Detailed Area Plan (DAP 2016-2035) for the RAJUK DMDP Area, gaining early exposure to large-scale regulatory frameworks.
- Resilience Planning: Assisted in designing emergency evacuation routes for the Dhaka City Corporation and drafted Action Area Plans to improve urban safety and disaster response.
- Participatory Research: Conducted community-based field research using PRA and FGD methodologies, coordinating with NGOs and government agencies to integrate local insights into technical planning.

Education

Bangladesh University of Engineering and Technology (BUET)

Bachelor of Urban and Regional Planning (BURP),

Dhaka, Bangladesh

2012-2017

CGPA: 3.62/4.00

- Focus: Land Use Zoning, Environmental Impact Assessment (EIA), GIS, Remote Sensing.
- Merit Position: **7th** (out of 25).

Technical Skills

- **Urban Planning & Analysis:** GIS Mapping (ArcGIS), Remote Sensing, Land Use Planning, Master Planning, EIA/SIA, SPSS, Excel.
- **Design & Drafting:** AutoCAD 2021, Adobe Creative Suite (Illustrator, Photoshop), Sketch-Up, CorelDraw.
- **Programming:** C, C++ (Introductory Coursework), Python (Basic).
- **Project Management:** Feasibility Studies, ISO 9001:2015 Auditing, Stakeholder Management, MS Office Suite.
- **Soft Skills:** Strategic Planning, Cross-functional Leadership, Time Management, Client Relations.

Publication

[2025]

A STUDY ON DISTRIBUTION AND LOCATIONAL EFFECTS OF FUEL STATIONS ON TRAFFIC FLOW IN DHAKA CITY CORPORATION AREAS

Biswas, Joy and Hossain, Tanvir and Hossain, Tanvir, Distribution And Locational Effects of Fuel Stations on Traffic Flow in Dhaka City Corporation Areas. Available at SSRN: <https://ssrn.com/abstract=5717415> or <http://dx.doi.org/10.2139/ssrn.5717415>

Certifications

Alcumus ISOQAR

Internal Auditor

Dhaka, Bangladesh

5-6 February, 2025

ISO 9001:2015 Training on Internal Auditing Technique Standard ISO

References

1. Dr. Roxana Hafiz

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2. Dr. Md. Musleh Uddin Hasan

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