

JOY BISWAS

Urban Planner & GIS Specialist

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Professional Summary

Results-oriented Urban Planner and GIS Specialist with over **8** years of experience in comprehensive master planning, geospatial analysis, and infrastructure development. Proven track record of managing projects with budgets exceeding **\$11 million** and delivering high-quality urban design solutions. Successfully completed **500+** freelance cartography projects for a global client base. Expert in ArcGIS, AutoCAD, and Adobe Creative Suite, with a strong focus on sustainable urban growth, environmental compliance, and stakeholder engagement.

Professional Experience

Sheltech (Pvt.) Ltd.

Assistant Manager

Dhaka, Bangladesh

11/2021–Present

- Utilizing expertise gained during the **Dhaka Detailed Area Plan (DAP 2022–2035)** formulation phase to drive its practical implementation within real-estate, managing **land-use clearance** compliance, performing sophisticated **development trend analysis, Floor Area Ratio (FAR)** calculations, socio-economic surveys and delivering strategic insights for Sheltech's forthcoming projects.
- Assisted team leader in GIS-based **spatial analysis, socio-economic** research and scenario-based **zoning land use** strategies for major urban master plans, including the Basail Pourashava (2024–2044) and Elenga Pourashava (2024–2044) Master Plans.
- Supervised key project phases, including collaborating with stakeholders and facilitating **feasibility studies** of the Chakaria Government Shrimp Estate Master Plan and regulatory approval processes.
- Served as Lead Internal Auditor for ISO compliance, ensuring strict adherence to quality management standards across departmental operations.

Nasrul Hamid Foundation

Urban Planner

Dhaka, Bangladesh

01/2021–10/2021

- Development of 05 Important **Roads** (Keraniganj): Managed a BDT 1090 Crore (**approx. \$9M**) infrastructure project spanning 21.6 km; secured **ECNEC** approval through robust **Development Project Proposals (DPP)** and feasibility studies.
- Shuvadhya **Canal** Restoration: Directed the integrated development and **shore protection** planning for a BDT 1500 Crore (**approx. \$12M**) environmental restoration initiative.
- Technical Survey Lead: Conducted and supervised all foundational technical surveys, including topographic survey, digital survey, and soil test reports, necessary for detailed engineering design.
- Public Infrastructure Planning: Oversaw site suitability analysis for the Model Mosque in Jhilmil Residential Area and new health facilities in South Keraniganj utilizing drone technology and GIS.
- Stakeholder & Impact Management: Conducted **EIA/ESIA** reports and led community engagement (**FGD, PRA**) to align local government bodies.

Fiverr

Freelance Urban Designer

Remote

01/2019 – Present

- Oversaw communication with clients from all over the world and project delivery, ensuring maps were audience-friendly and met specific client needs for presentations and reports.
- Independently managed and completed over **500** freelance cartography projects for a global client base on the Fiverr platform.
- Specialised in creating high-quality vector maps, including site maps, event maps, floor plans, and plot layouts for both print and digital use with demonstrating proficiency in Adobe Illustrator, Photoshop, GIS tools, and AutoCAD.

Sheltech (Pvt.) Ltd.

Assistant Urban Planner

Remote

12/2018–12/2020

- Performed GIS mapping, collected geo-informational field data, and created various location maps for higher-level decision making.
- Utilised SPSS to design and analyse socio-economic data for various projects and analysed the data to inform strategic decision-making and report progress and outcomes to senior management.
- Performed market research and analysed project feasibility to support the development of new initiatives and conducted management Information System (MIS) reports and client feedback reports to monitor project performance and client satisfaction.

Development Design Consultants Ltd. (DDC)

Junior Urban Planner

Dhaka, Bangladesh

03/2017–11/2018

- Contributed to the Detailed Area Plan (2016–2035) for DMDP Area (Part B) under RAJUK.
- Assisted in Developing emergency evacuation routes for Dhaka City Corporation and drafted Action Area Plans.
- Conducted participatory research through Participatory Rural Appraisal (PRA) and Focus Group Discussions (FGD) to gather crucial data and insights with local residents, public representatives, NGOs, and government agencies

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**

Professor,

DURP, BUET

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2. Dr. Md. Musleh Uddin Hasan

Professor,

DURP, BUET

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