

Anika Afrose

Structural Engineer

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Summary

Structural Engineer experienced in the analysis, design, drawing review, and retrofitting of RCC and steel building and infrastructure projects. Proficient in applying BNBC (2006/2020), ACI, ASTM, AASHTO and EN codes to deliver constructible and code-compliant solutions. Hands-on in structural modeling using ETABS, SAP2000, STAAD Pro, RAM Connection, MIDAS and AutoCAD. Adept at preparing rigorous design calculations, retrofitting schemes, and technical documentation with effective multidisciplinary coordination.

Working Experience

10/2026 – Present
Dhaka, Bangladesh

JPZ Consulting (Bangladesh) Ltd.
Design Engineer

- Assisted in structural design & analysis of RCC & Steel structures for Buildings, Bridges, Slipways, Underpasses, Jetty and other Infrastructure projects.
- Worked with RCC & Steel structures using ETABS, STAAD Pro, SAP2000, AutoCAD, MIDAS & RAM Connection
- Ensure design quality and code compliance as per BNBC 2006, BNBC 2020, ACI, ASTM, AASHTO & EN standards.
- Prepared & reviewed structural design reports, DEA reports, calculations, BOQs, business proposal & technical documents.
- Coordinated with senior engineers & project team for design review, drawing checking and project deliverables.

11/2023 – 09/2026
Dhaka, Bangladesh

JPZ Consulting (Bangladesh) Ltd.
Junior Engineer

- Assisted in structural design & analysis of RCC & Steel structures for Buildings, Bridges, Slipways, Underpasses, Jetty and other Infrastructure projects.
- Worked with RCC & Steel structures using ETABS, STAAD Pro, SAP2000, AutoCAD, MIDAS & RAM Connection
- Ensure design quality and code compliance as per BNBC 2006, BNBC 2020, ACI, ASTM, AASHTO & EN standards.
- Prepared & reviewed structural design reports, DEA reports, calculations, BOQs, business proposal & technical documents.
- Coordinated with senior engineers & project team for design review, drawing checking and project deliverables.

07/06/2022 – 31/10/2023
Gazipur, Bangladesh

Z2 Consultancy Solutions
Assistant Structural Engineer

- Assisted in structural design & analysis of RCC & Steel structures for Buildings, and Infrastructure projects.
- Worked with RCC & Steel structures using ETABS, STAAD Pro, SAP2000, AutoCAD.
- Ensure design quality and code compliance as per BNBC 2006, BNBC 2020, ACI, ASTM & EN standards.
- Prepared & reviewed structural design reports, DEA reports, calculations, BOQs, business proposal & technical documents.
- Coordinated with senior engineers & project team for design review, drawing checking and project deliverables.

Education

2017 – 2021
Natore

B.Sc. in Civil Engineering
Bangladesh Army University of Engineering & Technology (BAUET)
CGPA: 3.89

2014 – 2016
Pabna

H.S.C, Science
Pabna Govt. Women's College
GPA: 5.00

2013 – 2014
Pabna

S.S.C, Science
Pabna Govt. Girls' High School
GPA: 5.00

Computer Skills

Office Applications
Microsoft Office

Analysis and Design Software
ETABS, SAP2000, STAAD Pro, RAM Connection, MIDAS

Drawing Software
AutoCAD

Certification

Gph Ispat –Prothom Alo En-Genious Structural Competition program 2nd round

MIDAS CIVIL NX Training Certificate

Internship Program

01/2020 – 02/2020
LGED, Pabna

Local Government Engineering Department (LGED)
Internship program
Trained on: Estimation, laboratory tests based on various materials, finishing work of a building & a upazilla road, a PC girder bridge and tensioning of a bridge.

Projects

2022 – Present

Hazrat Shahjalal International Airport Pedestrian Underpass Construction, 24 Engineer Construction Brigade (ECBDE), Dhaka Cantonment.
JPZ Consulting (Bangladesh) Ltd.
Proposed (EA) Underpass Tunnel, Canopy- (Haji Camp, North, South, Ashkona, Rail Station, Terminal 3, Terminal1,2), Terminal1,2 Connecting Bridge Design & Analysis.

2025 – Present

Mirganj Bridge over The Arial Kha River at 8 th Km of Rahmatpur- Babugaj-Muladi-Hizla Highway
JPZ Consulting (Bangladesh) Ltd.
Proposed (EA) Bridge design, River Training Work Structure Review and Prepare Proof Checking Report.

2019 – Present

Dockyard no 1 & 2 of BIWTC, Narayanganj
JPZ Consulting (Bangladesh) Ltd.
Proposed (EA) Winch House and Slipway design & analysis.

2022 – Present

Consultancy Services for The Project of Establishment of River Port at Chilmary - BIWTA
JPZ Consulting (Bangladesh) Ltd.
Proposed (EA) Jetty & Walkway Shed (Ramna, Jorgachh, Rajibpur, Rowmari, Nayarhat) design & analysis

2025 – Present	**Consultancy Services for Design Surface Water Treatment Plant, Booster Pump House with Pump, Transformer & Retaining Wall, Pipe Network and Solid Waste Management System, Department of Public Health Engineering, Shajek, Rangamati District.** JPZ Consulting (Bangladesh) Ltd. Proposed (EA) Water Treatment Plant, Booster Pump House with Pump, Transformer & Retaining Wall, Pipe Network & Solid Waste Management System Shed Design & Analysis.
2021 – 2025	**Sustainable Coastal and Marine Fisheries Project, Department of Fisheries (DOF)** JPZ Consulting (Bangladesh) Ltd. Proposed (EA) Hatchery Shed (charfassion, Bhola), Fish Market (Ramgoti, Laxmipur), Office Building (Chakaria, Cox's Bazar) design and analysis.
2022 – 2025	**Coal Power Generation Company Bangladesh Ltd. (CPGCBL)** JPZ Consulting (Bangladesh) Ltd. Proposed (EA) VIP Cottage, Chief Engineer Banglow, Officers Club, Development Resort & Residential Building types- A, E, D design & analysis with report writing.
2021 – 2025	**Consultancy Services for Mongla Port Authority** JPZ Consulting (Bangladesh) Ltd. Proposed (EA) Incinerator House, Waste Water Treatment Plant- PRF, Generator House design and analysis.
2013 – 2024	**Consultancy Services for Construction of Proposed 32 Storied With 4 Basements ICB Head Office Building** JPZ Consulting (Bangladesh) Ltd. Proposed (EA) Shore Protection, Bracing, Building design & analysis.
2019 – 2023	**Construction of Foot Over Bridge under The Project of Integrated Urban Infrastructure Development in Rajshahi City** JPZ Consulting (Bangladesh) Ltd. Design Review Foot over Bridge (Mintu Chattar, Talaimari Mor, Binodpur, Polytechnic Mor)
2017 – 2023	**Consultancy Services for Development of Park and Playground, Dhaka South City Corporation** JPZ Consulting (Bangladesh) Ltd. As-Build (DEA) Museum Building design & analysis
2021 – 2022	**Purbasha Textile Composite Ltd. (Mymensingh)** Z2 Consultancy Solutions As-Build (DEA), Prepare an analysis & retrofitting of shed & building. Prepare report according to PRIMARK & RSC.
2022 – 2022	**Katex Fashion Clothing Ltd. (Gazipur)** Z2 Consultancy Solutions As-Build (DEA), Prepare an analysis & retrofitting of shed & building. Prepare report according to PRIMARK & RSC.
2022 – 2022	**Total Fashion Ltd. (Narayanganj)** Z2 Consultancy Solutions Proposed (EA), Prepare an analysis of shed. Prepare report according to PRIMARK & RSC.
2021 – 2022	**Rich Cotton (Gazipur)** Z2 Consultancy Solutions Proposed (EA), Prepare an analysis of building. Prepare report according to PRIMARK & RSC.

Lavender Garments Ltd. (Gazipur)
Z2 Consultancy Solutions
Proposed (EA), Prepare an analysis of building. Prepare report according to PRIMARK & RSC.

2022 – 2022 **Venice Washing & Dry process Industries (Gazipur)**
Z2 Consultancy Solutions
Proposed (EA), Prepare an analysis of building. Prepare report according to PRIMARK & RSC.

References

Md. Majharul Islam, *Structural Engineer,* Z2 Consultancy solution Ltd.
z2.mazharul@gmail.com

Ratul Ahmed, *Manager,* JPZ Consulting (Bangladesh) Ltd.
ratulontheoffice@gmail.com