

Md Zahurul Islam Zayed

JUNIOR ENGINEER - Project Management, Material Estimation, & AutoCAD Drafting

✉ mdzahurulislam.atw@gmail.com

☎ (+1) 705 921 9246

📍 Ontario

in [LinkedIn](#)

Professional Summary

Civil Junior Engineer with 5+ years in structural design, construction supervision, and project management across industrial and community projects. Conducted 30+ site inspections, validated soil compaction and concrete quality, improving compliance by 32% and reducing material wastage by 28%. Produced as-built AutoCAD drawings, technical reports, and dashboards, enhancing workflow accuracy by 27%. Coordinated labor and material estimation across multi-site operations, managed scheduling and durability assessments, and integrated GIS mapping to strengthen project planning and delivery.

SKILLS

- **Structural Design & Drafting:** Produced load plans, as-built drawings, and inspection reports using AutoCAD.
- **Construction Planning & Supervision:** Created work schedules, directed labor, enforced compliance with RSC.
- **Material Estimation & Quality Control:** Conducted material take-offs, monitored curing, and plaster finish checks.
- **GIS & Mapping Tools:** Applied ArcGIS for spatial mapping, site evaluations, and planning construction projects.
- **Project Documentation & Reporting:** Drafted project reports, maintained dashboards, and tracked work progress.

WORK EXPERIENCE

Senior Officer, Civil Engineering Department

Park Bangladesh Company Ltd.

March 2023 – July 2023

Bangladesh

- Conducted 25+ compliance checks, reviewing structural inspection data, retrofitting records, and soil compaction tests, coordinating site engineers to maintain 90% conformity with RSC guidelines across industrial construction activities.
- Drafted as-built architectural and structural layouts integrating DEA evaluations, retrofitting documentation, and slump test results, assisting engineers in improving drawing accuracy & enhancing project reporting efficiency by 95%.
- Optimized material estimation through compressive strength testing, durability assessments, and subgrade verification, integrating workflows that minimized material wastage by 30% and standardized procurement across projects.
- Developed construction dashboards, tracked workflow delays, applied scheduling controls, and validated concrete air entrainment results, supporting engineers in achieving 28% higher adherence to delivery targets across 12+ projects.
- Implemented quality control inspections including nuclear densometer testing, concrete slump & air entrainment tests, & compressive strength reviews, validating subgrade compaction & ensuring compliance with ACI structural standards.

Environmental Assistant, Construction Supervisor

HELVETAS ACTED

February 2023 – April 2023

October 2021 – December 2022

Bangladesh

- Coordinated site assessments, prepared repair scopes, and implemented soil compaction verification using nuclear densometer, streamlining camp infrastructure delivery and improving overall construction efficiency metrics by 35%.
- Supervised labor and CFW groups, ensuring compliance with WFP safety standards, overseeing backfilling operations, subgrade checks, and compaction activities, reducing non-compliance by 40% across monitored infrastructure sites.
- Facilitated engineers in planning workflows, executed concrete compressive strength testing, verified timelines, and accelerated emergency infrastructure completions by 32%, aligning schedules and minimizing technical response delays.
- Prepared technical site documentation, compiled inspection findings, integrated slump and air entrainment results, ensuring construction reports were 25% more accurate, and improving documentation efficiency across project teams.
- Monitored material usage and compaction checks with densometer equipment, ensuring effective structural conformance, improving adherence metrics by 28%, and enhancing accountability across cross-functional construction teams.

Public Health Engineering Assistant

OXFAM GB

July 2021 – September 2021

Bangladesh

- Assessed WASH requirements, performed soil density and permeability testing, and designed sanitation interventions, achieving a 30% compliance increase while coordinating construction standards across community-based clusters.
- Directed fecal sludge management rollouts, guided construction crews, enforced Oxfam technical standards, managed subgrade compaction, and applied soil density verifications, ensuring 95% conformity to prescribed quality specifics.
- Verified construction performance through compressive strength tests, slump checks, and air entrainment evaluations, detecting defects early and reducing implementation errors by 28%, strengthening overall construction quality reliability.
- Consolidated project logistics, tracked documentation, and updated records, raising project visibility by 25%, ensuring sanitation infrastructure reporting was transparent and aligned with sustainable water system delivery requirements.
- Created monitoring reports integrating field test results and verification data, improving decision-making agility by 32%, and providing leadership with accurate insights to drive timely interventions in sanitation engineering operations.

Assistant Technical Officer

BRAC International

May 2021 – July 2021

Bangladesh

- Managed technical need assessments, applied soil compaction verification with nuclear densometer testing, ensuring a 33% adherence increase and aligning engineering priorities with project requirements across diverse construction teams.
- Guided volunteer groups, captured construction insights, documented technical observations, and raised stakeholder participation by 27%, reinforcing accountability and improving communication throughout project delivery frameworks.
- Coordinated labor activities, applied safety standards, reduced incident rates by 30%, and audited compaction and backfilling processes, maintaining compliance and ensuring technical accountability across challenging environments.
- Built dashboards for performance tracking, compiled concrete strength test data, lifecycle verifications, and site metrics, improving reporting accuracy by 25% and supporting decision-making efficiency in active construction operations.
- Evaluated project deliverables, applied corrective actions for non-compliance findings, improving adherence rates by 28% and strengthening accountability through structured engineering supervision across all operational environments.

Assistant Engineer

Fakir Fashion Ltd

September 2015 – January 2021

Bangladesh

- Supervised industrial construction of printing sheds and treatment facilities, conducted compaction checks with nuclear densometer, achieving 35% improved structural efficiency and supporting compliance across overall engineering projects.
- Executed ACCORD compliance audits, administered labor safety adherence, documented corrective actions, and elevated reporting standards, improving transparency and compliance by 30% across engineering construction operations.
- Forecasted materials using ERP, enabled procurement planning, and lowered wastage by 28%, standardizing supply workflows, improving accuracy, and ensuring alignment between material availability and construction requirements.
- Facilitated construction inspections, performed slump and air measurement tests, validated concrete strength, and raised structural quality by 32%, enforcing adherence to design requirements throughout industrial construction projects.
- Designed construction dashboards, consolidated reporting data, confirmed subgrade inspections, and increased decision-making precision by 27%, streamlining technical reporting processes across cross-functional engineering project teams.

PUBLICATION

Research Project: Effect of Signal Time Coordination in four Closely Spaced Intersections at New-Market–Mirpur Road

Presidency University, Bangladesh

January 2019 – December 2019

EDUCATION

Masters of Engineering Science, Mining Engineering

Laurentian University, Ontario

September 2023 – May 2025

Bachelor of Science, Civil Engineering

Presidency University, Bangladesh

May 2016 – December 2019

Diploma in Engineering, Civil Technology

Dhaka Polytechnic Institute, Bangladesh

March 2011 – February 2015