

AAKIF AHAMED

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PROFESSIONAL
EXPERIENCE

Civil & Structural Engineer | Jan 2025– Present

Development Engineering Services Ltd.

- Performed structural analysis and design of building elements (beams, columns, slabs) using ETABS and SAP2000 & ENERCALC ensuring compliance with BS & Euro codes.
- Developed structural models, analyzed load cases, and interpreted results to produce safe and efficient design solutions.
- Prepared detailed structural and reinforcement drawings using AutoCAD and Revit Structure, aligned with design calculations and project requirements.
- Utilized engineering tools such as Excel for design calculations, load estimations, and optimization of structural components.
- Coordinated with architectural and drafting teams to ensure accuracy, constructability, and proper detailing of structural elements.

Green Code Holdings Ltd. (United Kingdom)

Structural Engineer | Nov 2025– Jan 2026

- Conducted structural assessments, inspections, and prepared inspection reports for residential projects including basements and underpinning works.
- Prepared basement impact assessment reports and method statements.
- Performed structural design calculations using Tekla Tedds in compliance with Eurocode and BS standards.
- Supported Planning and Building Control submissions with technical reports, drawings, and stakeholder coordination.

Tudawe Brothers (pvt) Ltd. (Corporate office building for Lee Hedges PLC)

Trainee Civil Engineer | OCT 2023–DEC 2023

- Prepared and organized bar bending schedules in compliance with structural drawings and codes, ensuring accuracy and efficiency in project planning.
- Assisted in both substructural and superstructural works, including material estimation and procurement (rebar, concrete, and formwork), to support smooth project execution.

Tudawe Brothers (pvt) Ltd. (Hotel Amari colombo)

- Supervised final finishing and interior works (painting, tiling, ceiling, wall finishes, and fixture installation), ensuring quality workmanship, adherence to design specifications, and timely project handover.

National Water Supply & Drainage Board

(Ambatale Water Supply System Improvement and Energy Saving Project)

Trainee Civil Engineer | JAN 2024–MAR 2024

- Supervised pipe laying, surveying, and water-retaining structure works, along with laboratory testing (sand cone, Proctor compaction, concrete cube crushing) to ensure material quality and compliance with standards.
- Oversaw final finishing stages of construction, maintaining quality workmanship and adherence to design specifications.

AWARDS &
ACHIEVEMENTS

Best Scientific Paper Award – International Conference on Sustainable Built Environment (ICSBE 2025)

- Session: **Disaster Risk Reduction and Resilient Infrastructure**
- Paper title: Evaluate the Impact on the West Coast due to the Construction of South Port Breakwater of Colombo Harbour
- Research focus: Disaster risk reduction, climate-resilient infrastructure, coastal erosion and accretion analysis
- Methods and tools: Remote sensing, satellite imagery, GIS analysis, QGIS, shoreline change analysis (SCE, NSM, EPR)
- Climate relevance: Assessment of monsoon-driven coastal hazards and infrastructure-induced climate risk

PROJECT EXPERIENCE	High-Rise 10-Storey Office Building Structural Design (Individual Project) 2026		
	- Developed a 10-storey high-rise RC office building model using ETABS and Revit based on real structural design practice. - Performed static, wind, and response spectrum seismic analysis for structural load evaluation. - Designed precast shear walls, core walls, and reinforced concrete structural elements. - Conducted drift checks, P-Delta analysis, and code-based structural verification for stability and serviceability. - Prepared structural analysis reports and design documentation using ETABS.		
	Design of Sustainable ECO Hotel in Pareiwella,Tangalle		
	Comprehensive Design Project (Group Project) 2024		
	- Prepared Environmental Impact Assessment (EIA) report in compliance with project and regulatory requirements. - Performed rainwater harvesting and drainage calculations for sustainable water management design. - Applied GBCSL Green Building standards in project planning and design compliance. - Conducted structural design calculations for slabs and beams ensuring code-based safety and performance.		
	Final Year Research Project (Individual Project) 2024		
	Evaluate the Impact On West Coast Due to The Construction of South Port Breakwater		
	Assessed shoreline changes at Mount Lavinia and Crow Island Beach due to South Port Breakwater using QGIS and the QSCAT Python plugin with Google Earth imagery, focusing on coastal and morphological impacts through GIS-based analysis.		
	Survey Camp (Group Project) 2022		
	Conducted a detailed land survey and designed a road section, incorporating data collection, topographical analysis, and layout planning for practical infrastructure development.		
CERTIFICATES	Introduction to Computer-Aided Structural Analysis & Design University Of Moratuwa (Ongoing)		Best Practice Guide For Advanced Finite Element Analysis structural Design Institute
	Diploma In Building Information Modelling (Autodesk) SFS Academy		SAP 2000 For Structural Engineers Udemy
EDUCATION	General Sir John Kotelawala Defence University 2021-2024 Bachelor of Science in Engineering (Hons) in Civil Engineering		GCE A/L 2020 Combined Mathematics – B Chemistry – B Physics–C General English –B
	Key Modules - Design Of Steel Structures - Reinforced Concrete Design - Bridge Engineering - Finite Element Analysis Of Structures - Geotechnical Engineering - Coastal Engineering		GCE O/L 2017 8A & C (Second Language Sinhala –A)
SKILLS	Software – AutoCAD, SAP2000, ETABS , TEKLA TEDDS, TEKLA Structures, STAAD.Pro, Revit , Enercalc		
	Language –Tamil , English , Sinhala , Arabic		
	Other – Adobe Creative Suite , Microsoft 365 , Canva		
REFERENCES			
	M. W. Ajith Gnanasiri Assistant General Manager, Ambatale Water Supply System Improvement and Energy Saving Project, National Water Supply & Drainage Board, Welivita, Kaduwela. 0718043869/0777599325 pmafdproject@yahoo.com	S.M. Ibra Lebbe B.Sc (Eng.), C.Eng. , M.I.C.E. M.I. Struct E. , M.I.E (SL) Development Engineering Services Limited. No. 1/1 Peters Lane, Dehiwala. 0773368365	DR. N.S. Miguntanna Head Of the Department, Department of Civil Engineering, General Sir John Kotelawala Defence University. 0773457978 miguntannans@kdu.ac.lk