

Muntakim Haque

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EDUCATION

University of Texas at San Antonio, Klesse College of Engineering and Integrated Design
Master of Science in Computer Engineering

San Antonio, Texas
August 2024 -December 2025

St. Mary's University, School of Science, Engineering and Technology
Master of Science in Computer Science

San Antonio, Texas
January-August 2024

Islamic University of Technology, Faculty of Mechanical & Chemical Engineering
Bachelor of Science in Mechanical Engineering

Dhaka, Bangladesh
October 2014

EXPERIENCE

Sarang Design Solutions, Dhaka, Bangladesh
Co-Founder and Engineer

Dhaka, Bangladesh
March 2021 – December 2023

Founded and led an architectural-engineering design practice with an employee head count of 30.

- Delivered a design, construction, and installation project worth \$0.25M for Bangladesh Department of Roads and Highways. Designed the access, drainage, electrical, structural and construction plans for the three-acre entrance to their Headquarters complex. Led a team of 20 designers and 50 construction workers to project completion 90 days ahead of schedule.
- Implemented an installation project of decorative fountains with bronze sculptures worth \$0.1M for the Bangladesh Rice Research Institute. Ensured end to end implementation from project planning, water flow and electrical plans design, materials sourcing, quality control, and installation. Attained 8% savings through design optimizations and components acquisition.

Bengal Institute for Architecture, Landscapes and Settlements, Bangladesh
Senior Content Associate

Dhaka, Bangladesh
June 2016 – December 2021

Part of the administrative team at the architectural research, design, and academic organization

- Developed the curriculum for and organized 15 academic sessions; edited 4 publications, managed their launch events and online reach; curated 5 exhibitions and 25 public lectures including overseeing their media coverage and documentation.
- Established the digital and print media infrastructure for the organization. Created the website; set strategic and editorial guidelines for the marketing and communication, social media presence, and media hosting and archival.

Saif Ul Haque Sthapati, Bangladesh
Engineering Consultant

Dhaka, Bangladesh
January 2017 – January 2020

- Consulted on technical designs for the Arcadia Education Project, a one-of-a-kind floating school. Tested the designs of the structure through CFD simulation and optimized its floatation stability, determined maximum load bearing capacity, and designed the water supply system. Achieved 44% reduction in carbon emissions by implementing a solar power based electrical system and optimizing the project maintenance plan based on my life cycle assessment of the structure.
- Designed HVAC systems and MEP plans for a 15k sqft cinema complex and a 10k sqft clothing factory.

Energy Prima Limited Bangladesh
Database Management Associate

Sylhet, Bangladesh
November 2014 – July 2015

- Created and maintained the first inventory database management system for the power-plant. Streamlined the parts logging, ordering, requisitioning, and tracking system for a 300 MW natural gas-powered power plant.

SKILLS, ACTIVITIES & AWARDS

Languages: Fluent in English, Bengali. Intermediary in German.

Awards: Aga Khan Award for Architecture (Team Member: Saif Ul Haque Sthapati – Arcadia Education Project).

Certifications: edX Harvard CS50P Certification for Python, AWS Cloud Security, Goethe B1 Certification for German Proficiency.

Technical Skills: Python, C# and Verilog, Database management (MSSQL, SQLite), Qiskit, CirQ, Q#, MS Visual Studio, VS Code and GitHub Codespaces, CAD (Autodesk Fusion 360, AutoCAD, Inventor, and Solidworks), CFD Simulation (Autodesk CFD and ANSYS), Structural Simulation (Autodesk Robot Structural), EDA (Cadence Virtuoso, Innovus, and Xilinx Vivado).