

MUHAMMAD SOHAIL

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OBJECTIVE

Motivated Civil Engineer and BIM Modeler with experience in Revit-based modeling, structural drafting, and interdisciplinary coordination. Seeking a BIM Engineer role to contribute precise, regulation-compliant BIM deliverables.

EDUCATION

NED University of Engineering and Technology	Karachi, Pakistan
BE Civil Engineering	2021 – 2025
F.G Sir Syed College, Rawalpindi Cantt	Rawalpindi, Pakistan
FSc Pre-Engineering	2019 – 2021

SKILLS

BIM Tools	Autodesk Revit, Navisworks, Dynamo, Civil 3D, AutoCAD, AutoRebar, Twinmotion
Structural Tools	ETABS, SOFiSTiK, CSI SAFE
Other Tools	MATLAB, Python, QGIS, MS Office, Adobe Suite
Soft Skills	Collaboration, Scientific Writing, Permit Coordination, Technical Detailing

EXPERIENCE

BIM Modeler	Jul 2025 – Present
Pro Building Designer LLC	Besham, Pakistan

- Created detailed BIM models for residential and commercial buildings using Autodesk Revit.
- Supported architectural and structural drafting with code-compliant permit-ready documentation.
- Modeled wood, steel, and RCC structures with accuracy to facilitate coordination and design workflows.

Civil Engineering Intern	Dec2024
Naqvi and Siddiqui Architects(Associates)	Karachi, Pakistan

- Assisted in site monitoring and concrete testing against ETABS design requirements.
- Reviewed drawings and specifications to assist in quantity takeoffs for slabs and beams.

BIM Intern	Feb2024–Mar2024
AAA Partnership Pvt Ltd	Karachi, Pakistan

- Created coordinated BIM models (architectural, structural, MEP) in Autodesk Revit.
- Developed parametric Revit families to enhance modeling precision.
- Attended workshop on Procore software to understand estimation workflow and document control.

Freelancer—Fiverr and Upwork	Dec2022–Present
Remote	

- Modeled residential and commercial buildings in Revit and AutoCAD for layout and documentation purposes.
- Extracted quantities for floors, walls, and materials directly from Revit models and compiled Excel-based BOQs.
- Delivered 2D drawings and estimation-ready outputs under tight client deadlines with accuracy and clarity.

FINAL YEAR DESIGN PROJECT

Digital Twin Aided Carbon Footprint Analysis for an Industrial Project

- Modeled a prefabricated industrial facility in Revit with integrated IoT sensor data.
- Used Arduino sensors to track eCO₂, temperature, and humidity.
- Simulated energy usage scenarios to identify high-carbon processes.

ACADEMIC PROJECTS

- Quantity Estimation and Rate Analysis – 400 Sq. Yards Residential Building

Estimated quantities and calculated rates for materials based on drawings and market rates.

- Structural Design and Analysis – 4-Story School Building

Designed structural system using ETABS and CSI SAFE. Created structural detailing in AutoCAD.

- Road Alignment and Curve Design

Designed a road with horizontal and vertical alignments using Civil 3D. Performed geometric curve design and manual drawings.

- Design and Analysis of G+2 Building

Analyzed a G+2 structure per ACI 318 standards using ETABS and modeled it in Revit for visualization and documentation.

- Bitumen Testing for Pavement Suitability

Compared physical properties of two bitumen samples using penetration, ductility, and softening point tests to assess pavement compatibility.

- Hydraulic Modeling – Hydropower Plant

Applied principles of similitude to design a physical model representing a prototype hydropower plant.

- Manual Structural Analysis of G+2 Building

Manually analyzed a multi-story structure for internal forces and structural behavior under applied loads.

- Photogrammetry and Scale Development

Used photogrammetry techniques to develop a scalable method to measure real-world distances from images.

- Earthwork Calculation – Cut and Fill Estimation

Used Google Earth Pro and ArcGIS to compute cut and fill volumes in a land development project.

- Architectural Design and 3D Visualization – G+1 Building

Created architectural drawings, 3D model, and walkthrough in AutoCAD and Revit for a G+1 house.

CERTIFICATIONS AND COURSES

- BIM Fundamentals for Engineers (Coursera)
- AutoCAD (Digiskills)
- Creative Designing (NFTP Batch-4)
- Digital Marketing (Digiskills)
- Professional Email Writing (Coursera)
- Bridge Construction Methodologies (Udemy)

HONORS AND ACTIVITIES

Trailblazers Engineers Scholarship – Full merit-based academic scholarship (2022–2025)

Creative Designer: ACI & NSA NED Chapters – Created posters, layouts, and event graphics (2022–2023)

Participant, National Dialogue on Climate Change – Focus on sustainability and green engineering (2023)