

MUHAMMAD FAISAL KHAN

STRUCTURAL BIM ENGINEER | REVIT • TEKLA TEDDS • ETABS

Swat, KP, Pakistan | +92 308 9481228

mfaisalkhan1112@gmail.com | www.linkedin.com/in/mfaisal-khan | <https://mfaisalkhan.com>

PROFESSIONAL SUMMARY

Structural BIM Engineer with 3+ years of professional and freelance experience in BIM modeling, structural design, multidisciplinary coordination and construction documentation. Experienced in Revit-based Architectural, Structural and MEP BIM, structural analysis using ETABS and Tekla Tedds, LOD 300–400 development, wood framing and RCC detailing. Proven experience leading BIM teams, coordinating directly with international clients and delivering multidisciplinary building projects.

TECHNICAL SKILLS

- **BIM & Coordination:** Revit, Navisworks, Recap Pro, clash detection, LOD 300-400 BIM modeling.
- **Design & Drafting:** AutoCAD, permit drawings, construction documentation, shop drawings.
- **Structural Design & Analysis:** Tekla Tedds, ETABS, SAFE, SAP2000 — structural analysis and design of timber, steel, and reinforced-concrete structures.
- **Rendering & Visualization:** Twinmotion, D5 Render.
- **Project & Quantity Tools:** MS Excel, MS Project, Primavera P6, PlanSwift.
- **Additional Skills:** Surveying, Abaqus, team leadership, client coordination, problem-solving.

EXPERIENCE

Structural BIM Engineer

Pro Building Designers LLC, Besham, Shangla | Feb 2025 – *Present*

- Lead and manage a 6 member BIM team for architectural, structural, and MEP modeling projects using Autodesk Revit.
- Coordinate directly with clients to understand project requirements, manage revisions, and ensure timely delivery of BIM outputs.
- Develop and review LOD 300–400 BIM models for US, Netherlands, Spain and Australia building projects.
- Prepare permit drawings, construction documentation, structural models, wood framing models, and RCC detailing packages.
- Perform structural design coordination and analysis support using Tekla Tedds and ETABS.
- Conduct clash detection and model coordination using Navisworks to identify and resolve conflicts between structural, architectural, and MEP discipline improving overall model accuracy.
- Create 3D/4D BIM models to support visualization, scheduling, quantity take-off, and project coordination.
- Produce 3D renderings and visual presentations using Twinmotion and D5 Render.

Freelance Structural & BIM Engineer

Selected Freelance Projects | Dec 2022 – Present

- Delivered structural engineering and BIM services for residential and commercial projects based on client requirements, design criteria, and project standards.
- Developed detailed Revit structural and architectural BIM models, typically from LOD 300–400, suitable for coordination, documentation, and construction drawing development.
- Performed structural analysis and design of steel, timber, and reinforced-concrete structures, including beams, columns, slabs, foundations, and framing systems.
- Prepared structural drawings, shop drawings, construction documentation, schedules, details, and coordinated BIM deliverables.
- Coordinated structural models with architectural and other disciplines, identifying clashes and supporting accurate, clash-free project delivery.
- Used Navisworks for model coordination and clash review and Autodesk ReCap Pro for point-cloud/reference-data workflows where required.
- Produced 3D visualizations and presentation-quality renders using Twinmotion and D5 Render to support design communication and client presentations.
- Managed freelance projects from client requirements and design development through modeling, structural analysis, coordination, revisions, and final delivery.

EDUCATION

- **BSc Civil Engineering Technology** | 2022 – 2026
Gold Medallist | Top of the class
University of Technology, Nowshera
- **DAE Civil Engineering** | 2019 - 2022
GCT Swat
- Diploma in Information Technology (DIT) | 2021 - 2022
GCT Swat

LANGUAGES

English (Professional working proficiency) | Urdu (Fluent) | Pashto (Native)