



REHAN AHMAD

CIVIL ENGINEER | BIM MODELER | AI SOLUTIONS SPECIALIST

Civil Engineer with a B.Tech degree and hands-on experience in site supervision, estimation, quantity surveying, QA/QC and billing as per CPWD norms. Proficient in BIM modeling using Revit (Architecture, Structure, MEP), Navisworks, and AutoCAD. Strong analytical and technical skills with a passion for delivering accurate, coordinated and efficient construction solutions. Now leveraging AI tools and digital solutions to create innovative, scalable and automated solutions for businesses.



CONTACT



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PERSONAL DETAILS

Nationality : Indian
Marital Status : Married
Availability : Immediate



EDUCATION

**Bachelor of Technology
in Civil Engineering**
Jul 2008 – Jul 2014
Bharati Vidyapeeth College
of Engineering, Pune



CERTIFICATIONS

- BIM Professional Training – Revit Architecture, Revit Structure, Navisworks (BIM Mantra)
- AutoCAD Professional Training (BIM Mantra)
- Experience Certificate – Patel Buildcon, Pune (Jan 2015 – Jun 2015)



TECHNICAL SKILLS

- Site Supervision
- Quantity Estimation & Costing
- BOQ Preparation
- Quantity Surveying
- QA/QC Inspection
- Billing as per CPWD Norms
- BBS Calculation
- Material Management
- Concrete & R.C.C. Works
- Surveying & Auto Level
- Construction Drawings Interpretation
- Safety Compliance
- Labour Management
- Documentation & Reporting



BIM & CIVIL ENGINEERING SKILLS

- Revit Architecture
- Revit Structure
- Revit MEP (Basic)
- AutoCAD
- Navisworks Manage
- Dynamo (Basic)
- Clash Detection
- 4D/5D BIM (Conceptual)
- BOQ & Quantity Extraction from BIM
- Coordination & Model Coordination
- Shop Drawing Review
- Construction Sequencing
- RFIs & Submittals



ADVANCED EXCEL SKILLS

- Data Cleaning
- Pivot Tables
- Dashboards
- VLOOKUP
- HLOOKUP
- Conditional Formatting
- Data Validation
- Charts & Graphs
- Reports & Analysis
- Data Visualization



AI & DIGITAL SKILLS

- AI Prompt Engineering (ChatGPT, Gemini)
- AI Image Generation (Midjourney, DALL-E)
- AI Video Generation & Editing (Kling, Others)
- AI Avatar Creation (HeyGen, Synthesia, D-ID)
- AI Voice-over Creation (ElevenLabs)
- AI Workflow Automation
- AI Advertisement Creation
- Website Development (AI Assisted)
- Web Application Development (AI Assisted)
- Android App Development (AI Assisted)
- iOS App Development (AI Assisted)
- UI/UX Prototyping & Design (AI Assisted)
- AI Chatbot & Business Automation Solutions
- Social Media Content Creation (Reels, Thumbnails, Posts)



SOFTWARE & TOOLS PROFICIENCY



AutoCAD



Revit
Architecture



Revit
Structure



Navisworks
Manage



Microsoft
Excel



Enscape



Lumion



Dynamo



Filmora



InShot Pro



ChatGPT



Gemini



ElevenLabs



HeyGen



SeeDance AI



Lovable



Supabase
(Basic)



Midjourney



DALL-E



Kling AI



PROFESSIONAL EXPERIENCE

Site Engineer

Patel Buildcon, Pune

Jan 2015 – Jun 2015

- Supervised construction activities and ensured work as per drawings and specifications.
- Conducted material testing and ensured quality compliance on site.
- Managed labour force, equipment and daily site operations.
- Prepared quantity estimates and maintained records of materials.
- Coordinated with engineers, contractors and clients for smooth project execution.

BIM Modeler & Project Engineer

BIM MANTRA, Online

Jan 2025 – Present

- Studied and understood building layouts, surveying and site measurement techniques.
- Proficient in using AutoCAD and Revit for 2D drafting and 3D BIM modeling.
- Prepared estimation, costing and quantity survey of various items.
- Prepared BBS calculations and BOQ as per CPWD norms.
- Prepared bills as per CPWD norms and maintained project documentation.
- Coordinated BIM models using Revit and Navisworks.
- Clash detection, coordination and quantity take-off using Revit & Navisworks.



BIM PROJECTS EXPERIENCE

- Architectural BIM Modeling (Revit Architecture):** Created detailed 3D models, floor plans, elevations, sections and schedules for residential and commercial buildings.
- Structural BIM Modeling (Revit Structure):** Modeled structural elements including columns, slabs, foundations and reinforcement with accurate documentation.
- Clash Detection & Coordination (Navisworks):** Performed clash detection, coordination reviews and generated clash reports for better constructability.
- Quantity Take-off (QTO):** Extracted accurate quantities from BIM models for estimation and BOQ preparation.
- Visualization:** Created realistic renderings and walkthroughs using Enscape and Lumion to present project designs.



AI PROJECTS & DIGITAL PORTFOLIO

- AI Advertisement Videos** for brands, malls, stores, jewellery, real estate, restaurants and corporate firms.
- AI Generated Short Films, Cartoon Videos & Educational Content.**
- AI Avatar Videos** using HeyGen, Synthesia & D-ID for YouTube & Businesses.
- Faceless YouTube Channel (Novatoons)** – AI based animated videos for USA audience.
- Sports Live Score Mobile App (Emergent Lab)** – Live cricket score, upcoming matches, built using CricketData API, Supabase backend.
- Portfolio Website** for BIM & Civil Engineering projects.
- Social Media Reels, Thumbnails & Promotional Content** for various niches.



LANGUAGES

- English – Full Professional Proficiency
- Hindi – Full Professional Proficiency



INTERESTS



Infrastructure
Development



Sustainable
Design



Urban
Planning



AI & Tech
Innovation



Travel &
Exploration



Content
Creation



PERSONAL STRENGTHS

- Analytical & Problem Solving
- Detail Oriented
- Fast Learner
- Team Player
- Time Management
- Adaptability



Passionate about combining Civil Engineering, BIM, Data & AI to deliver innovative and efficient solutions.

