TECHNOSTRUCT
Assembling Dreams Into Reality

PRATIK CHOUDHARI

BIM ENGINEER

PROJECT EXPERIENCE

Project: Bank Building (South), *Role: BIM Modeller (Architectural)*
Brief note about the project.
Description:

- Re-modelled the complete **architectural BIM model** using **laser-scanned point cloud data** to match accurate as-built conditions.
- Reviewed existing models and drawings to identify discrepancies and corrected architectural elements such as **walls, floors, roofs, doors, windows, and façade components**.
- Developed **LOD 300–400** architectural models in accordance with project standards and **BIM Execution Plan (BEP)**.
- Produced coordinated **plans, elevations, sections, and 3D views** for design review and documentation.

Achievements:

- Improved overall **model accuracy and alignment** with point cloud data.
- Reduced design inconsistencies and **rework during coordination**.
- Delivered high-quality **as-built BIM models** within project timelines.
- Enhanced collaboration by providing reliable models for **design and coordination teams**.

Project: Bank Building (North), *Role: BIM Modeller (HVAC)*
Brief note about the project.
Description:

- Re-modelled **HVAC systems** using **laser-scanned point cloud data** to match accurate as-built conditions.
- Coordinated HVAC layouts with architectural and structural models to resolve **clashes and space constraints**.
- Developed **LOD 300–400 HVAC BIM models** and generated drawings and 3D views as per **BEP**.

Achievements:

- Improved **HVAC model accuracy and reliability** through precise **point cloud alignment** and as-built verification.
- Delivered **well-coordinated HVAC, architectural, and structural BIM models**, reducing design conflicts and rework.
- Produced **accurate shop drawings and as-built deliverables**, supporting efficient construction and installation within project timelines.

ABOUT ME

Results-driven **BIM Engineer** with **2 years of experience** in Building Information Modeling (BIM) and coordination. Experienced in using BIM tools to improve **project efficiency, model accuracy, and multidisciplinary collaboration**. Strong expertise in **Scan-to-BIM processes**, including conversion of point cloud data into accurate architectural and structural models, ensuring compliance with project standards and timelines.

EDUCATION

BIM Ready Complete: Post-Graduate Certificate in BIM
Michigan State University

Bachelor of Engineering (B.E.) in Civil Engineering
Gondwana University | 2017 – 2021

Higher Secondary Certificate (HSC)
Maharashtra State Board | 2017

Secondary School Certificate (SSC)
Maharashtra State Board | 2015

SKILLS

SOFTWARE/TECHNOLOGY	PROFICIENCY LEVEL
Building Information Modelling (BIM)	Intermediate
3D Modelling and Visualization	Intermediate
Clash Detection and Resolution	Intermediate
Project Coordination and Management	Intermediate
Technical Documentation and Reporting	Intermediate
Team Collaboration and Communication	Expert
Point Cloud Data Management and Analysis	Intermediate
Revit	Expert
AutoCAD	Expert
Enscape	Intermediate
Bluebeam	Intermediate
SketchUp	

UNIQUE TECHNICAL EXPERIENCES

- **A. Scan-to-BIM re-modeling using point cloud data (Architectural, Structural & MEP)**
- **B. Multidisciplinary BIM Coordination (Arch / Str / MEP)**
- **C. Construction-Ready BIM Deliverables**

WORK EXPERIENCE

BIM ENGINEER – SCAN TO BIM

VTRANS DITILISING THE WAYS., NAGPUR

Dec 2022 – Present

- Executing **Scan-to-BIM projects** by converting **laser-scanned point cloud data** into accurate **architectural, structural, and MEP BIM models**.
- Re-modelling and validating **as-built BIM models** to ensure alignment with site conditions and client standards.
- Developing **LOD 300–400 models** and generating **plans, sections, elevations, shop drawings, and as-built documentation**.
- Collaborating with internal teams to ensure compliance with **BIM Execution Plans (BEP)** and timely project delivery.

SKILLS

Scan-to-BIM (**Architectural, Structural & MEP**)

Point Cloud Data Interpretation & Validation

BIM Modeling for **Architectural, Structural & MEP** disciplines

LOD 300 / LOD 400 Modeling

As-Built BIM Modeling

Clash Detection & Multidisciplinary Coordination

Shop Drawings & Construction Documentation