

EJAJ AHMED

MEP BIM MODELER

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❖ PROFESSIONAL SUMMARY

Results-driven BIM MEP Modeler with a strong foundation in Electrical Engineering and hands-on experience in **MEP 3D modeling, project coordination, clash detection, and service coordination**. Proficient in **Autodesk Revit MEP, Navisworks, and AutoCAD**, with experience in developing coordinated MEP models, shop drawings, and BOQ extraction for commercial and residential projects. Familiar with **HVAC, Electrical, Plumbing, and Fire Fighting systems**, with a strong understanding of BIM workflows, model coordination, and construction documentation. Currently focused on advancing expertise in **BIM modeling, Revit Families, Dynamo, and MEP coordination**.

❖ PROFESSIONAL EXPERIENCE

Integrated Design Limited Building Information Modelling - / (IDIBIM)

BIM Modeler

05/2026 – Present

- Develop LOD 300/350 coordinated models for Mechanical, electrical, and plumbing disciplines in Revit .
- Perform multi-disciplinary clash analysis and coordination meetings using Navisworks Manage.
- Extract 2D construction drawings, floor plans, riser diagrams, and schedules from coordinated models.

Daikin Airconditioning India Pvt. Ltd. | Kolkata, W.B - India

HVAC Design Engineer

08/2025 – 05/2026

- Prepared detailed HVAC floor layouts, duct routing, and equipment placement drawings using AutoCAD .
- Performed cooling load calculations and Bill of Quantities (BOQ) estimation using MS Excel for high-precision project planning.
- Coordinated with senior engineers to finalize pipe sizing, duct sizing, and machine capacity based on load analysis.

❖ TECHNICAL SKILLS

BIM / CAD Tools: Autodesk Revit MEP (Mechanical, Electrical, Plumbing), Navisworks Manage, Revit Dynamo (Upskilling), AutoCAD

BIM Processes: 3D Modeling, Clash Detection, Clash Resolution, Model Federation, Redline Markups, Visual Coordination

Engineering & Documentation: Shop Drawings, As-Built Drawings, Heat Load Calculations, Duct & Pipe Sizing, Cable Tray Routing, BOQ Preparation

Standards & Concepts: LOD 200–400, MEP Family Creation, System Creation & Schedules

Office & Utility: Microsoft 365.

❖ KEY BIM & MEP PROJECTS

1. Commercial Hotel & Restaurant Project (HVAC & MEP Coordination)

- **Software:** Autodesk Revit MEP, Navisworks Manage, AutoCAD
- **Level of Development:** LOD 300 / 350

- **Role:** BIM MEP Modeler
 - **Software:** Autodesk Revit MEP, Navisworks Manage, AutoCAD
 - **Key Responsibilities & Highlights:** Modeled complete VRV/VRF systems, including indoor/outdoor unit placements, refrigerant piping, branch selectors, and condensate drainage. Designed and routed supply, return, and exhaust ductwork with coordinated diffuser and grille placements according to airflow CFM requirements. Coordinated electrical containment (cable trays and trunking) with HVAC ducting and structural elements in ceiling voids.
- Conducted weekly clash detection in Navisworks Manage between MEP services and architectural/structural models; generated detailed clash reports and resolved spatial conflicts prior to execution.

❖ **EDUCATION**

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- **Bachelor of Technology (B.Tech) in Electrical Engineering** (2020- 2023)
Dr. Sudhir Chandra Sur Institute of Technology
 - **Diploma in Electrical Engineering** (2017- 2020)
Berhampore Polytechnic College

❖ **CERTIFICATIONS & TRAINING**

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- **Revit MEP & BIM Workflow Training (Advanced)**
Focus: 3D MEP Modeling, System Creation, Family Creation, and Clash Detection.

❖ **LICENSES & GOVERNMENT CERTIFICATIONS**

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- **Electrical Supervisor's Certificate of Competency (SCC)** Valid up to: 01/2035
Government of West Bengal (Electrical Licensing Board) | License No: SCC02/2024/01118
 - Parts 1, 2, 11: Wiring & Systems up to 650V
 - Parts 6A, 6B: Overhead Lines up to 33,000V (33KV)
 - Parts 7A, 7B: Underground Cables up to 33,000V (33KV)
 - Parts 12: Installation of Transformer exceeding 650 volts rating up to 125 KVA