

MOHD AHMED HUSSAIN

Mechanical BIM Modeler | NEOM, Saudi Arabia | +966 534619816 | ahmedhussain579801@gmail.com | Iqama: 2610706422

Professional Summary

Experienced Mechanical BIM Modeler with over 6 years of hands-on experience in developing, managing, and coordinating MEP (Mechanical, Electrical & Plumbing) systems for large-scale projects in the Gulf and Asia, including NEOM and Malaysia. Proficient in Revit MEP, AutoCAD, Navisworks, and BIM 360, delivering clash-free, coordinated 3D models, construction documentation, and as-built models. Adept at implementing BIM Execution Plans (BEP), Revit family creation, and interdisciplinary coordination to ensure project accuracy and efficiency.

Technical Skills

Autodesk Revit MEP, AutoCAD, Navisworks, BIM 360, Revit Architecture, Clash Detection & Coordination, Revit Family Creation, BIM Execution Plan Implementation

Professional Experience

- Al Samman Group | NEOM, Saudi Arabia
- Mechanical BIM Modeler | April 2024 – Present
- Develop, manage, and update detailed mechanical BIM models (HVAC, plumbing, and fire protection) in compliance with project standards.
- Coordinate with architectural, structural, and MEP disciplines to deliver clash-free and accurate models.
- Generate shop drawings, as-built documentation, and installation drawings directly from BIM models.
- Conduct clash detection using Navisworks and ensure adherence to BIM Execution Plans (BEP).
- Support project managers and engineers with technical reviews and Revit model optimization.
- Train junior modelers and contribute to the continuous improvement of BIM workflows.
- Intel (Bayan Lepas) | Penang, Malaysia
- CAD / BIM Designer | September 2019 – April 2024
- Delivered coordinated 3D BIM models for MEP systems following project-specific BIM standards.
- Prepared shop drawings, coordination layouts, and as-built documentation for multi-disciplinary projects.
- Led BIM coordination meetings and executed clash detection across MEP systems.
- Developed Revit families and templates to standardize modeling workflows.

- Supported engineers in technical drawing preparation and documentation throughout the project lifecycle.

- Platinum Edge Construction Sdn Bhd | Malaysia
- Revit / CAD Operator | 2016 – 2019

- Created and maintained accurate 2D CAD and 3D Revit models for MEP (Mechanical, Electrical & Plumbing) systems.
- Coordinated MEP elements with architectural and structural models to avoid design conflicts.
- Performed quality control (QC) checks and Revit model audits to ensure accuracy and consistency.
- Generated Navisworks models for clash detection and construction coordination.

Key Projects

- NEOM Infrastructure Development – Mechanical BIM Modeler (HVAC & Fire Protection Systems).
- Intel Facility, Bayan Lepas – MEP BIM Coordination and 3D Modeling.
- Sunway TWR Tower – Coordinated MEP layout and BIM documentation.
- Tour-in-City Tower – BIM Modeling and design coordination for MEP systems.
- Jaya Mall & Mentari Court Apartments – Revit MEP modeling, clash detection, and BOQ extraction.

Education & Certifications

Diploma in Mechanical Engineering – Swami Vivekanand Institute, 2019

AutoCAD Certified Professional – Autodesk, 2017

Revit MEP Certified Professional – Autodesk, 2018

Languages

English, Urdu, Hindi, Malay