

Capstone: Your trusted BIM Partner for MEP Engineering Excellence

Dubai's construction sector, renowned for its innovative and ambitious projects, is experiencing a similar surge in BIM adoption as the US. While BIM use might not be as widespread yet (estimates suggest penetration around 30-40%), the benefits are undeniable. 3D models created with BIM software foster seamless collaboration across disciplines, leading to significant reductions in errors and costly rework. This is crucial for complex projects with tight deadlines common in Dubai. Additionally, BIM empowers engineers to design with sustainability in mind, optimizing buildings for energy efficiency – a key focus for the emirate's future development. As the global BIM market reaches \$10.6 billion by 2027, BIM is poised to become an essential tool for shaping Dubai's future skyline. Capstone Engineering stands at the forefront of this movement, leveraging our BIM expertise to deliver high-performance and cost-effective MEP solutions for your projects in Dubai.

Our MEP BIM Expertise:

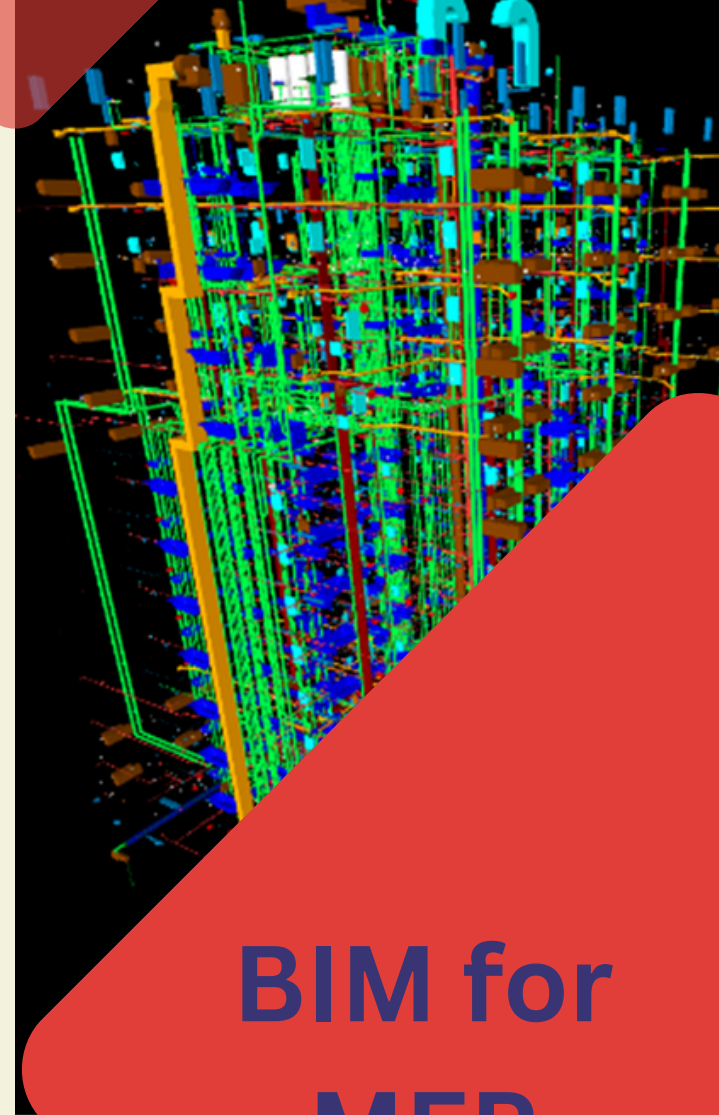
- 3D BIM Modeling for MEP
- Clash Detection and Resolution
- MEP Design Development & Coordination
- MEP Design Validation

About Capstone Engineering Solution:

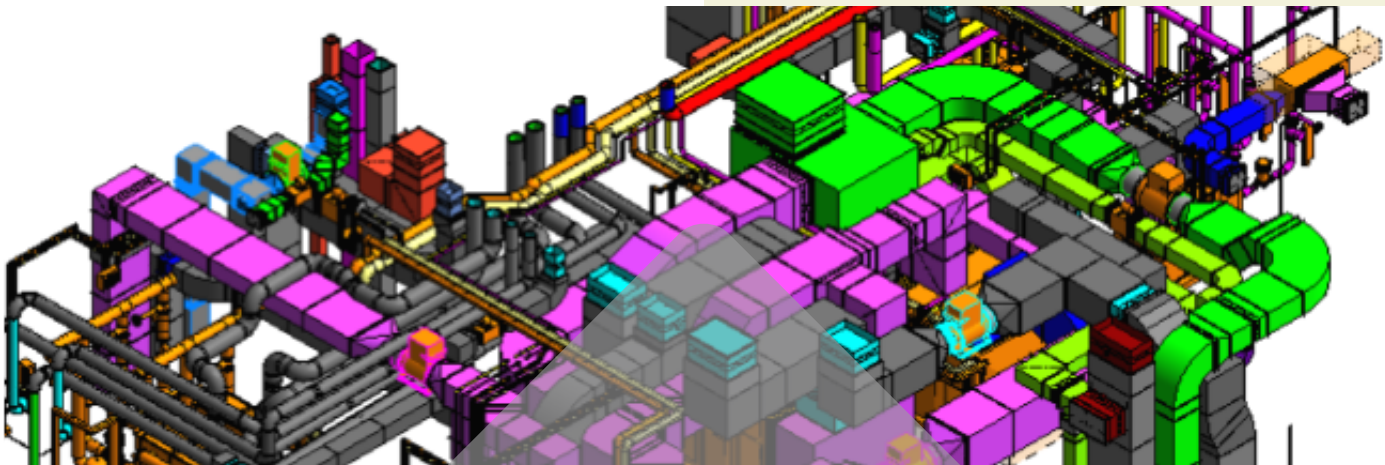
Welcome to Capstone, where innovation meets expertise in architecture, structure, MEP, and industrial services. With a proud legacy spanning over 17 years, we have emerged as a trusted partner for industry giants like Specon, Petrofac, TechnipFMC, AECOM, and Dodsai. Our journey is marked by a relentless pursuit of excellence, delivering top-notch solutions in architecture, building, house exteriors, renovations, and industrial projects.

Our Services:

- 3D BIM Modeling, Coordination & Clash Resolution (LOD 300, LOD 400)
- Shop Drawings, Riser Drawings, Sleeve Penetration/Cut-Out Drawings
- Block-out Drawings, Pre-Fabrication/Spool Drawings
- CNC Data Integration with BIM Models
- Quantity Take-offs (Pre-bid & Execution)
- Value Engineering & MEP Design Validation
- As-Built Modeling & As-Built Documentation
- Scan-to-BIM/Point Cloud to Revit Modeling
- MEP Walkthrough



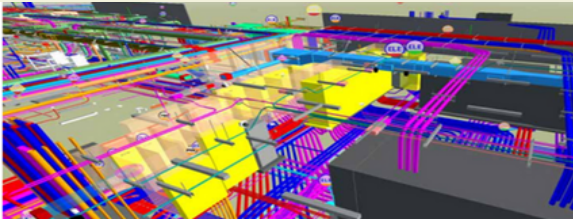
BIM for MEP



Sectors we facilitate:

- Residential Buildings
- Commercial Buildings
- Railway Stations and Airports
- Hospitals, hotels, and Resorts
- Schools and Universities
- Industrial Gas Stations
- Historical Monuments

Electrical BIM Modeling



Input - Concept Revit Model



Input - Schedule Drawings



Work Process:

MEP BIM transforms projects through collaborative 3D modeling, clash detection, and data-driven design to optimize MEP systems from conception to facility management.

Software Used:

Leveraging industry-leading BIM software like Revit MEP, AutoCAD MEP, Navisworks, Recap Pro, Fabrication CAD MEP, and Fabrication CAMDUCT, Capstone Engineering delivers cutting-edge MEP BIM solutions.

