

# ASHISH MATHUR

Building Information Modelling (MEP) Engineer

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## Professional summary

MEP Engineer with 5+ years of experience in design and modelling implementation of mechanical, and plumbing systems for commercial and non-commercial facilities. Interpreted architectural and structural designs and engineering schematics to best route HVAC and plumbing. Updated designs with as-built drawings and site complexities. Sought solutions for issues concerning space insufficiency, coordination, panel Drawings, shop/spool/sleeve drawings, routings etc.

## Skills Profile

**Revit :** Creating template to start a project, Create Piping and Duct Systems, Levels and Grids, worksets, Routing preferences, Family Creation, Modelling, Shop Drawing, Assemblies for spools etc.

**AutoCAD Fabrication :** Load database from the system location, Select or create services, Set modelling standards, Create template for spools, Setup spool and shop drawing settings, Bill of material etc.

**Revit Fabrication :** Load database, Import services and other requisites, modelling etc.

**Navisworks :** Generate clash report, Create viewpoints, Create sets, Sectioning etc.

**Technical Skills :** Different HVAC and Plumbing System workflow, Best modelling practices for Plumbing and HVAC, Modelling Do's and Dont's etc.

**Revizto :** Create stamps, Create search sets, generate clash report, coordination, Sectioning, Create Viewpoints etc.

## Career Projects

### • Atrium Health Union West Project, Team Lead, MSN UK

- Atrium Health Union West project by MSS Solutions LLC. It is a Health care Building project. The scope of work is to provide LOD 400 BIM models, Coordination & Sleeve Drawings of HVAC, FP, Mechanical piping and Refrigerant piping.
- 3D Model, 2D Drawings & Coordination of HVAC MP and FP in Revit Fabrication.
- Shop drawing of sheet metal, fire protection, mechanical piping and refrigerant piping.
- RFI creation for coordination issues.
- Quality check of 3D-Model.

### • HACI Good Year City Hall, Team Lead, HACI USA

- It is a project by HACI Construction. It is a commercial Building project in which Model, Coordination & Sleeve Drawings of HVAC, Mechanical piping and Refrigerant piping were in the scope of work.
- 3D Model & Coordination of HVAC (SM and MP) in AutoCAD fabrication.
- Shop drawing of Sheet Metal, mechanical piping and refrigerant piping.
- RFI creation for coordination issues.
- Quality check.

### • Grand Avenue, offshore Team Member, WSC, USA

- Grand Avenue is a project by Westbrook Service Corporation. It is an Education type of project. The scope of work in this project was HVAC 3D Modelling, Tilt panel shop drawing, Coordination, 2D Drawings, Quantity Take-off and AS-built drawing.
- 3D Model, 2D Drawings & Coordination of HVAC in AutoCAD Fabrication.

- Quality Check.
  - RFI creation.
  - Client meetings to communicate all the issues and necessary information.
  
- **Orange County Public School, Team Member, WSC USA**
  - Orange Country Public School is a project by Westbrook Service Corporation. It is an Education type of project. In this project HVAC 3D Modelling, Tilt panel shop drawing, Coordination, 2D Drawings, Quantity Take-off, AS-built drawing for 10 buildings was in our scope of work
  - 3D Model, 2D Drawings & Coordination of HVAC in AutoCAD Fabrication.
  - Quality Check.
  - RFI creation.
  - Attend Client coordination meetings
  
- **ARI 30 Amgen, West Greenwich Rhode Island, Project Lead, Amgen Inc.**
  - This is a data Centre project by Amgen Inc. The Scope of work was as follows.
  - 3D As Built Modelling of Mechanical, Electrical, Plumbing and Process Piping Using revit.
  - Metadata input in model elements for BMS Requirements
  - Quality Check.
  - Training the client for other end QC.
  - Organise weekly Progress meetings with client
  
- **405 Broadway TI, Redwood City, CA, Team Member, Merryman Farr, LLC.**
  - This is a Commercial project covering 34280 sqft.
  - 3D Model, 2D Drawings & Coordination of HVAC and Plumbing in Revit.
  - LOD 350 for field execution along with shop drawing.
  - Hanger Point Location for Jbot CSV.
  - Quality Check and RFI generation.
  - Attend Coordination meetings for Plumbing and HVAC.
  
- **CIVICA Affordable Insulin Project, Petersburg, Virginia USA, Team Leader, DPR .**
  - This is an Insulin Lab project of DPR.
  - Scope is of MEP Design and Mechanical Piping Modelling.
  - Duct size calculation using CFM values from PID diagrams.
  - Mechanical Piping modelling using PID Diagrams.
  - Model Coordination and Quality control.
  
- **PCH Second Floor TI-Phase 2, Phoenix, Arizona 85016 USA, Team Lead, DPR .**
  - This is a multipurpose clinic project of DPR.
  - Scope is of HVAC, Mechanical Piping and Plumbing.
  - Model population using existing model scans and coordination.
  
- **University of Virginia | McIntire School of Commerce, Charlottesville, VA .**
  - distributed antenna system (DAS) conduits modelling and coordination.
  - In-slab conduit modelling coordination and shop drawing.
  - Evolve Conduit run-ID assignment.
  - Kit Shop Drawing for conduits.

- **Northolt High School, Bedfordshire UK, Project Manager, EMEC Cons.**
    - This is a data Commercial project by EMEC Cons. The Scope of work was as follows.
    - Modelling Coordination & Shop Drawing of Mechanical, Electrical, Plumbing and Heating & CoolingUsing revit.
    - Builder's work & Drawing Issuance from P01 TO C02 Revision
    - Quality Check.
    - Assign work to team members, work submissions & Project Planning.
      - Organise weekly Progress meetings with client

## Training Experience

- Autocad and Autocad Fabrication Trainer for 2022 batch.
  - HVAC Technical training trainer for 2022 batch.

Education

**Bachelor of Technology (Mechanical Engineering) May 2019**

- Jodhpur Institute of Engineering and Technology, Jodhpur with **81.00%**

# **Professional Organisation**

<b>Pinnacle Infotech Solutions</b>	<b>July, 2019 – Dec, 2022</b>
<b>vConstruct USA Inc</b>	<b>Jan, 2023 – July, 2024</b>
<b>Pinnacle Infotech Solutions</b>	<b>July, 2024 – Jan, 2025</b>

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