

M. JEYAVEL

BIM MODELER - PLUMBING & FIRE FIGHTING

CONTACT

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🌐 [Portfolio link](#),

EDUCATION

B.E - MECHANICAL ENGINEERING

SMK Fomra Institute Of Technology,
CGPA : 7.52 / 10,
2017-2021.

TECHNICAL SKILLS

1. REVIT,
2. NAVIS,
3. REVIT DYNAMO ,
4. AUTOCAD (intermediate).

WORK HIGHLIGHTS :

1. **BIM Modeler** specializing in **Revit automation** using **Dynamo and Python**.
2. Experienced in **developing custom Revit tools** and **add-ins**, advanced **parametric families**, and **workflow automation** to improve efficiency and data accuracy.
3. Developed custom Dynamo add-ins that replicate key **Di Roots features**, enabling centralized access to commonly used **Revit tools**.
4. Automated **bulk schedule data extraction** and **Excel export**, reducing manual work and errors.
5. Created advanced **parametric families** with **formula-based** controls for **flexible design changes**.
6. Advanced **parametric Revit family** development.
7. **Formula-driven** families. **Reusable**, **scalable**, and **performance-optimized families**.

WORK EXPERIENCE

PRISM CONSULTING ENGINEERS - (29/02/2024 - TILL DATE)

POSITION : BIM Modeler

WORKING PROJECT :

- NOIDA INTERNATIONAL AIRPORT - JEWAR,
- HUBALI AIRPORT - KARNATAKA.

Roles and Responsibilities:

- Designed and modeled complex **Plumbing** and **Fire Protection** systems using Autodesk **Revit** and **BIM 360** for commercial and residential projects.
- Modeled **Water supply, Drainage, Vent, Rain water, Pump Rooms**, and **Fire suppression** systems including piping, **Sprinklers**, and equipment layouts.
- Created and organized construction **Drawing sheets** for **Plumbing** and **Firefighting** systems using Autodesk Revit, adhering to project-specific standards and LOD requirements.
- Generated **Floor plans, Sections, Isometric views, Detail View, Legends**, and **Equipment schedules** with accurate **Annotations** and **Dimensions**.
- Handled drawing submissions including **PDF/DWG** exports and title block management, ensuring timely delivery through platforms like BIM 360.
- Performed **Clash Detection** and **Coordination** using **Revit** and **Navisworks** Manage to identify and resolve spatial conflicts between **Plumbing, Firefighting, HVAC, Electrical** and **Structural** systems.
- Created **Scripts** for **Views Renaming, Element Filtering** and **Model Cleanup**, reducing manual effort and minimizing errors.
- Developed detailed **Clash Matrix** to systematically track, categorize, and prioritize clash issues across **Plumbing, Firefighting**, and other **MEP** disciplines using **Navisworks** and **Revit**.
- Expert in analyzing and enhancing the **Health Report** of **MEP models**, ensuring **Higher model quality**, compliance, and reliability across plumbing, firefighting, HVAC, and electrical systems.
- Created **Parametric** and **Scalable Families** to enhance model accuracy and flexibility for various project requirements.