RADHESHYAM PATIL

Freelance Tekla Structures Steel Detailing Specialist

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WHAT I DO

I help steel fabricators, EPC contractors, and engineering companies transform structural design drawings into accurate Tekla 3D models and fabrication-ready steel detailing deliverables.

With 10+ years of hands-on experience in Tekla Structures, I specialize in creating high-quality structural steel models and shop drawings that support smooth fabrication and erection processes.

My work focuses on industrial steel structures, oil & gas facilities, equipment support systems, pipe rack structures, and miscellaneous steel detailing.

I ensure that every model and drawing is accurate, clash-free, and fully coordinated, allowing fabricators to reduce errors, avoid costly rework, and improve overall project efficiency.

I also assist clients in model checking, drawing review, constructability analysis, and fabrication documentation preparation.

My goal is to provide reliable, high-quality Tekla detailing services that meet international standards and project deadlines.

SERVICES I PROVIDE

Tekla Structures 3D Modeling

- Structural Steel 3D Modeling
- Industrial Steel Structures
- Pipe Rack Modeling
- Equipment Support Structures

Steel Detailing

- GA Drawings
- Assembly Drawings
- Single Part Drawings
- Erection Drawings

Fabrication Deliverables

- Bill of Materials (BOM)
- NC / CNC / DSTV Files
- Material Takeoffs

Model Review

- Clash Detection
- Constructability Review
- Model Checking & QA/QC
- Revision Updates

PROJECT TYPES I WORK ON

✔ Pipe Rack Structures
✔ Oil & Gas Steel Structures
✔ Equipment Support Structures
✔ Industrial Platforms & Access Systems
✔ Skid Mounted Steel Structures
✔ Structural Miscellaneous Steel
✔ Staircases, Ladders & Handrails

SOFTWARE EXPERTISE

Tekla Structures – Advanced

- 3D Modeling
- Fabrication Drawing Preparation
- NC File Generation
- Model Checking and Coordination

INDUSTRY STANDARDS

AISC – US Steel Projects
CSA – Canadian Steel Projects
IS 800 – Basic Awareness
Eurocode 3 – Basic Awareness

EXPERIENCE

I have more than 10 years of experience in structural steel detailing using Tekla Structures, working on a wide range of industrial and EPC projects.

Throughout my career, I have been responsible for developing detailed 3D models, preparing fabrication drawings, and performing model checking to ensure fabrication accuracy.

I have extensive experience working on pipe racks, equipment support structures, technological platforms, structural frames, and miscellaneous steel components.

My responsibilities have included:

- Developing accurate Tekla 3D structural models
- Preparing GA drawings, assembly drawings, and single-part drawings
- Generating Bill of Materials and NC files for fabrication
- Reviewing models and drawings for clashes and constructability issues
- Coordinating with engineering teams to resolve RFIs and design clarifications

My experience also includes checking structural steel models and fabrication drawings to ensure quality, accuracy, and compliance with project standards.

EDUCATION

Bachelor of Mechanical Engineering – 2016

Diploma in Mechanical Engineering – 2011