# R. Harish Babu

## Mechanical Engineer

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 Chennai, Tamil Nadu, India.

**SUMM AR Y**

A competent professional with nearly **10 years** of experience in multiple industries includes Oil and gas, Pulp and paper, power plant, chemical plant, Water treatment and Onshore Wind turbines.

### **EXPERIENCE**

**Tata Consultancy services** 09/2021 – Till Date

**Projects:** General Electric - Onshore Wind turbine projects

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| --- | --- |
| **EMEA:**   * BJV - Björkvattnet * Aura Phase 1 wind turbines * Merkkikallio PH 1 * Guney * Beckum | **APAC:**   * BANGO * Murra Warra * Goyder * Esashi * Torrent * JSW |

**Roles and Responsibility**

* Red Flag review (RFR) – study the potential safety risk and taking necessary mitigation action for the site team
* Handling PAC cases, that are raised from the site and providing appropriate solution.
* Collaborating with RCA team to analyze the cause of incident happened.
* Collaborating with the sourcing and vendor to find the quality of the failed part.
* In line with MMF team to get the details on the assembly during failure.
* Conducting regular team meeting with team to know the work load and share with in the team.

**Team ware Solutions (Deputed to TCS)**

01/2015 - 05/2020

**Projects:**

* Salof – LNG and CO₂ purification and liquefaction
* Linde & CGC Oil & Gas
* JPS Gas Turbine outer piping
* GE - Onshore Wind turbine projects

**Roles and Responsibility**

* Manage and perform various piping design aspects, including piping arrangement drawing, isometric drawing, piping list, BOM preparation, piping support drawing, piping insulation standard, etc.
* Pipe routing for heat exchangers, boilers, pump, compressors, tanks and isometric generation in Aveva E3D.
* HVAC duct 3d modelling and routing
* Cable routing and Cable tray/ladder routing.
* Collaborating with the senior management to maintain a continuous stream of information regarding the project status and progress.
* To design, develop and release/maintain technical specifications used during the whole project life cycle

**Barry whemiller(P) Ltd.,**

04/2014 - 12/2014

**Projects:**

* MAAPICO, Clorox Chemicals
* Tung Hsiao, Power Plant
* Sea Water desalination plant

**Roles and Responsibility**

* Responsible for checking 3D Model, Plot Plans, Equipment Layout, Piping General Arrangement drawings, Isometric Drawings, Line List, Tie-in Schedules, Material Take-off, etc., as per the Codes, Standards & Design Office Practices.
* Software administration, including project setup, specifications generation, and library customization in CAD Worx and AutoCAD Plant 3D
* Responsible for checking Piping isometric drawings and providing corrections.
* Resolved the queries from the vendor and verify the quotes according to the project data.

**Mech Tech Projects(P) Ltd.,**

04/2012 - 04/2014

**Projects:**

* TSK GROUPS - Water Treatment Plant
* JK PAPER - CLO2 and Fiber Line area

**Roles and Responsibility**

* Modeling of civil/structural elements such as equipment foundations, platforms, walkways (or ladders, railings, maintenance holes, envelopes, pipe racks, skid base frame/lifting lugs, or anchor bolts), with input from [detailed 2D drawings](https://www.rishabheng.com/cad-design-services/2d-drafting/) in AutoCAD format.
* Detail drawings for storage tanks as per API standard
* Monitored and supported to erect the Hoist beam structure over the Digester in the JK paper plant.
* Utilized AutoCAD and PDMS to design and produce piping isometrics and equipment layout drawings.

### **HIGHLIGHTS**

Piping

* 3D Modeling of pump, tank, vessels, tower, structure, and building in CAD and Plant Software.
* Good knowledge in machinal equipment like Pump, Compressor, Heat exchangers, Coolers, Boiler, Turbine, Gearbox etc.,
* Good Knowledge in Piping flange, Pipe fittings as per the ASME B16.5, B16.9, and B16.11.
* Expertise in the Piping material specification (PMS) and Pipe size as per ASTM and ASME B36.10 & 36.19.
* Reading and understanding of Process flow diagram (PFD), P&ID, and Hookup drawings.
* Creating and understanding piping Isometric Drawings and its Bill of material (BOM)
* Good Knowledge in Providing Primary and secondary Supports as per the input from stress engineer.

Electrical

* 3D modeling of electrical cable trays and cable ladders.
* Good Knowledge in understanding Electrical Schematic drawing, wiring drawing, Block drawing and Pictorial diagrams.
* Good Knowledge electrical equipment and components like motor, Generator, transformer, control cabinets, switch gears, switches, relays, fuses, capacitors, battery. etc.,
* Good understanding on Electrical cable installation methodology as per standard

Others

* In-depth knowledge of Geometric and Tolerance (GD & T) and welding standards (ISO & ASME).
* Admin scope (**Spec editing and catalogue editing**) in CAD Worx and Auto plant 3D.
* Ability to create detailed drawing from the 3D models.
* BOM generation both manually and CAD based.
* Good knowledge in Data gathering from various source and create a report for analysis.

### **EDUCATION**

Bachelor in Mechanical Engineering - 2011

St, Peters Engineering College, Chennai, India.

### **SKILLS**

PDMS CAD Worx plant Solid Works Inventor

AVEVA E3D Auto CAD PLANT 3D Navis Works

SP3D Auto CAD MS Office

### **LANGUAGES**

English Tamil Telugu