**Sarada Rudrapati**

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**TECHNICAL PROFESSIONAL: Product Design & Development**

*Industry Preference: Automotive, Locomotive and Heavy Engineering*

Looking for a creative, challenging and growth-oriented role where I can utilize my skills and experience for the potential growth of the Organization & self.

**AN OVERVIEW**

# Total Experience: 9+ years of experience in all phases of 2D and 3D in Converters, Body Construction Engineering(BCE) and Body In White (Fixture Design and Simulation).

**Eng. College: RRS** College, Hyderabad. Passed M.Tech (CAD/CAM) in 2015.

**Skills:** **Design Software** – Fides, Catia V5, Solidworks, Unigraphics, Auto Cad, Proces Simulate.

**PLM/PDM**- VPM, PDM, Team Center.

**Supporting Software:** MS Office.

**CORE COMPETENCIES**

* + - * Experience in VBS & SPL Creation in FIDES
      * Experience in Design, Modelling, Detailing and Assembly of welding fixtures.
      * Development of sheet metal & casting parts.
      * Geometric Dimensions and Tolerance (GD&T).
      * Layout preparation for Sub-assemblies of Automobile, Cycle time calculation,
      * Deciding the no. of fixtures and no. of operators.
      * Design of Manual welding fixtures, Power Clamp Fixture & Automated Welding fixture.
      * Drafting of Various BIW Welding fixture and grippers by using different CAD tools.
      * Welding gun selection.
      * Design of fixture with NAAMS Standards.
      * Design of fixtures with Asian style clamping and European style clamping.
      * Design of fixtures with Trunions and Turn tables.
      * Design of Stationary Locating Assy & Movable locating Assy.
      * Quality Process, Audits, Check list, Quality Checking.
      * Modelling, Surfacing, Assembly, Mechanisms, Drawings creation, Project Estimation, Design Presentations etc.

**PROJECT UNDERTAKEN & RESPONSIBILITIES**

**Project:** L460, L461, X900

**Role& Company:** Team member **(JLR)**

**Location:** Gaydon

**Period:** May 2022- Till date

* Design, Modelling and drafting.
* Tools auditing.
* TD1 Snags review.
* Uploading tools to V6(3D experience).
* Uploading tools to Teamcenter

**Project:** B479, B515, C519, BX726, CX482, (VBS & SPL)

**Role& Company:** Team member **(Ford)**

**Location:** Chennai

**Period:** Mar 2016- Mar 2019

* FIDES Setup and CAD Downloads.
* Cad and Sealer Segregation.
* Creating Sport Pattern Layout Sheets.
* Creating Virtual Build Sheets.
* Generating deliverables as per customer requirements.

**Project:** Propulsion controls Projects

**Role& Company:** Offshore Team member **(Cyient ltd)**

**Location:** Hyderabad

**Period:** Dec 2013- Nov 2015

* Creating, checking, and assembling of the sheet metal parts for the Converters projects.
* To create detail drawings for QRNG, C30, PHD and CRO projects.
* Study of Inputs received from the customer thoroughly.
* Locomotive converters have several types of assembly’s like MCM, LCM.
* Detail drawings with the application of GD&T are created including bill of materials as per Bombardier Standards.
* Generating deliverables as per customer requirements.

**Project:** **31XX\_UNDERBODY  
Client:**  General Motors

**Role& Company:** Project Engineer **(Classic Design Engineering System Pvt. Ltd)**

**Location:**  Hyderabad

**Period:** Feb 2012- July 2012

* Worked on layout study, Work Product, Cycle Time, and Station PPT’s.
* Deciding of PLP, Gun Study for welding of BIW Sub Assemblies.
* Clamp Plan for holding the Sub-Assemblies,
* Concept design, Co-ordination with the Simulation Team for checking and approval of Design.
* Design, Modelling and Detailing of Welding Fixtures and Modifications of fixtures.
* Preparation of 2D manufacturing detail drawings of the fixtures created including bill of materials as per NAAMS Standard.

**Project:**  **IRIS**

**Customer:** Tata Motors

**Role& Company:** Project Engineer **(Classic Design Engineering System Pvt. Ltd)**

**Location:** Hyderabad

**Period:** Aug 2012- Feb 2013

* Worked on layout study, Work Product, Cycle Time, and Station PPT’s.
* Deciding of PLP, Gun Study for welding of BIW Sub Assemblies.
* Clamp Plan for holding the Sub-Assemblies.
* Design of Stationary Locating Assy. & Movable locating Assy.
* Design, Modelling and Detailing of Welding Fixtures and Modifications of fixtures.
* Preparation of 2D manufacturing detail drawing of the fixture created including bill of materials as per TML Standard.
* Creating the assembly drawings and detailed production drawings for the Tooling designed along with all the geometrical and dimensional tolerances specified.

**Project:** **GMX 353 MCE QA Hood Panels.**

**Customer:** General Motors

**Role& Company:** Project Engineer **(Classic Design Engineering System Pvt. Ltd)**

**Location:**  Hyderabad

**Period:** Mar 2013- Nov 2013

* Project involves design change to suit GMX 353 MCE Hood from GMX 352 Hood Tools.
* Tools like, Re-spot fixture, Robot EOATs, PED Clinch, Clinch Check Station, Marriage Station, Rest Stand / Passing Fixtures, Cooling rack.
* Design of Geo fixtures on turn table.
* Design of Stationary Locating Assy. & Movable locating Assy.
* Kit tooling and coloured kit sheet for shop floor.
* Layout and detailing of all the tools with BOMs, PC BOMs with Text Files.

Concept models / Gun Study, Tool vs. Panel Comparison study PPTs.

**Project:** **D1BLI DECK LID OTR LASER BRAZING TOOL**

**Client:**  General Motors

**Role& Company:** Project Trainee **(Classic Design Engineering System Pvt. Ltd)**

**Location:**  Hyderabad

**Period:** Feb 2011- Nov 2011

* Worked on Design of LASER BRAZING TOOL.
* Layout and detailing of all the tools with BOMs.
* Concept models.
* PC BOMs with Text Files.
* UG files with Layout & Detailing.
* BOM with Text Files.
* Water Jet Profile drawings in DXF.

**Project:** **GMX 521 QA Hood Tools.**

**Customer:** General Motors

**Role& Company:** Project Trainee **(Classic Design Engineering System Pvt. Ltd)**

**Location:**  Chennai

**Period:** Mar 2010 - Dec 2010

* Project involves design change to suit GMX 521 MCE Hood from GMX 521 Hood Tools
* Tools like, Re-spot fixture, Robot EOATs, PED Clinch, Clinch Check Station, Marriage Station, Rest Stand / Passing Fixtures, Cooling rack.
* Design of Cooling Rack.
* Kit tooling and coloured kit sheet for shop floor
* Layout and detailing of all the tools with BOMs, PC BOMs with Text Files.

Concept models / Gun Study, Tool vs. Panel Comparison study PPTs.

**EDUCATION**

Bachelor of Technology in Mechanical Engineering from JBIET College Hyderabad, affiliated to JNTU with an aggregate of 63.4% in the year 2005-2009.

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