**RANJANA**

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**PROFESSIONAL OVERVIEW**

* B.E in Industrial & Production Engineering with over 9+years of extensive experience in Automotive & Semi-conductor Industry.
* From Nov 2013 – March 2016 : With “**Applied Materials India (AMIND)”** as **Technical Lead – Mechanical**
* From May 2006 – Oct 2013: With “**General Motors India”** as **Senior Engineer - Manufacturing**.
* Sound knowledge in General assembly of automotive parts
* Superior CAD assembly skills and excellent drafting skills and layout creation for Semiconductor tools used in installation of the machines in customer fab and assembly shop drawing for automobile manufacturing.
* Manage the shop drawings and as built drawing programs – coordinate with the team and management to ensure work progress is as per schedule.
* Review the shop drawings progress, analyze the resource adequacy for achieving the schedule, implement corrective actions for any variations from the plan and verify the effectiveness of the corrective items
* Provide technical solutions for all the design issues in coordination with team and manufacturing plant
* Provide accurate progress updates to the team in USA and India weekly and monthly
* Present weekly progress, next week plans and potential issues affecting the progress of the drawing submittals to the management and discuss/decide and implement the corrective actions
* Prepare drawings for approvals as per the project requirement
* Leading, training and developing the team
* Possess excellent interpersonal, communication, organizational and people management skills with proven abilities in team management result orientated and having the ability to produce detailed technical specifications from client requirements

**AREAS OF EXPERTISE**

**Functional Skills**

* Excellent communication skills, particularly the ability to rigorously reach clarity on the issues and drive decision making process to conclusion
* Self-motivated, well organized, energetic, work well under pressure
* Excelled in managing the team and project management
* Good Trainer – Have trained more than 50 engineers in General Motors – On the job and class room training

**Technical Skills**

Teamcentre, Visio, VisMocup, Unigraphics, Microsoft office, AUTO CAD 2013, Autodesk Inventor, Autodesk Inventor fusion & Autodesk Vault

**CAREER CONTOUR**

**Nov 2013 – March 2016 with Applied Materials India (AMIND) as Technical Lead - Mechanical**

* Work profile: Creating Facilities Data Package (FDP) shells (3D models) and 2D layouts (Facilities Installation Templates - FIT) for installation of semi-conductor tools using AUTOCAD
* Management: Working with Master Layout Authorities (MLOA), identifying the Points of Connections (POC) for each shell and interacting with various business units for gathering required information to work on FDP projects.
* Management: Presenting weekly status report to team (USA and India) through WebEx meetings which helped in resource planning and work load planning
* Management: Leading and mentoring team members to produce excellent quality of shells which are used directly by the plant for their layouts
* Management: Interacting with various teams across organization by conducting meetings to understand the design intent and the various configuration of the Semiconductor tools
* Individual Contribution: Creating detailed drawing and information necessary for installation of the tool using CAD
* Quality Check: Developed a checklist for checking drawings for accuracy and errors and which has been approved and used by both India and USA team

**Key Project:**

**Creating 3D shell model and 2D drawing of Volga tool for Toshiba**

**Software Tools Used:** Unigraphics, Autodesk Inventor, Autodesk Inventor Fusion, AutoCAD and Autodesk Vault

The input will be a Teamcentre number/parasolid/.step file/bookmark file which will be more than 100MB. The process involves opening the input in NX and cleaning up the input file according to the checklist which will decide the final output at this stage itself. The cleaned up part file will have only those parts needed in the final shell model. This part file will be converted in to drawing file by sending the file through Autodesk inventor and inventor fusion for the file size reduction. The drawing file in then opened in AUTOCAD and only outer surface of the file is retained with facilities points of connections and a 2D layout is also created with labels and dimensions which serves as reference to identify the cutouts and other detailed information necessary for tool installation in the FAB.

Each tool contain various sub modules like – Factory interface, Mainframe, Chamber, Load lock, load port and secondary equipment’s. Each module is shelled separately and then assembled to create a full tool.

The 2D cad file will ultimately be printed full scale and shipped to the customer- both soft copy and hard copy. 3D CAD files which are a “lighter” version of a highly detailed model, has all of the points of connection with additional information like electrical service area and door swing. These files are checked in to AUTODESK Vault data base for library creation which will be helpful in automating the 3D layout for the FAB.

**These files are used by the customers to plan and prepare for the facilitation of wafer processing tools.**

Major customers who request these shells are **Intel, Samsung & TSMC**

**May’2006 - Oct’2013 with General Motors Technical Center India Pvt. Ltd. (GMTC-I) as Senior Engineer – Manufacturing**

* Work profile: *Creating installation assembly drawings* (Manufacturing process drawings) in Unigraphics and Teamcentre visualization which shows the sequence of assembly process of various automobile parts along with 3D representation of parts being assembled. This document is used by customers in General Assembly shop for installing parts on to cars/trucks chassis
* Work Profile: *Engineering Change management* :Updating the engineering changes in the assembly drawings according to the Engineering change orders created by design engineers
* Management: Training and mentoring team members
* Management: Creating and publishing project reports to program coordinator on a weekly basis
* Management: Assigning the project to team and monitoring the progress of the project and addressing the issues on need basis
* Quality check: Review and ensure the detailed drawing schedule from clients is in compliance with project drawing schedule and standards.

**Key Projects:**

* **Processing Engineering change Orders (ECO) or Engineering change request(ECR) / Carryover**

**Software Tools Used:** E2, Unigraphics, Tc Visualization Mock up, TcAE, Visio

ECO/ECR - Project involved studying the work order and the parts specification, update the changes in the master process document as per the intent and releasing it to the database. This document will be downloaded in the assembly shop to carry out the necessary changes in the assembling of the parts

Carryover – Project involved carrying over the information/documents from one Model Year to future Model Year and also to capture the changes for math/specification changes while doing the same. Any new installation drawing is created then it will be sent for approval. An internal manufacturing work order will be created and the drawings will be released. This document will be used by the assembly shop to build the next model year cars/trucks

* **Creating Work In Progress / IVER Installation Assembly Drawing**

**Software Tools Used:** Unigraphics, Tc Visualization Mock up, TcAE, Visio

WIP – Project involved studying of initial math data (math data will not be 100% Production release) of the entire vehicle/program, creating installation assembly drawing from the scratch by studying the math data and the specification of all the parts released for the particular vehicle and understanding the assembly process of each and every part of the vehicle.

IVER – Project involved checking the WIP drawing and comparing it with the part specification for the accuracy of the images created for the installation of the parts. Send the drawings to the customer for approval using E2– which involves creating a manufacturing work order and adding all the information about the drawings created. If the drawings are approved then the same will be released. If there are any corrections to be made, the drawings will be updated and again sent for approval.

**Projects: Worked on Chevrolet Beat, Hummer, Cadillac, GMC and Silverado for different regions like USA, China, India, etc.**

**ACHIEVEMENTS**

* @GMTC-I: Received Great Team Work Award for successful execution as team member in completing 90% of the total MPDs before due date with acceptable quality for M300 FED IVER program on 21st July 2011.
* @ GMTC-I: Recognized with Great Team Work Award for excellent efforts in releasing 95% of IVER MPDs on-time against a target of 90% for M300 BEV on 10th April 2012
* @ GMTC-I: Received recognition award for team work in outstanding efforts in delivering 98% of MPDs as on due date with 100% quality for T300 program

**TRAININGS**

* **India** : Underwent training on the assembly of parts in the Manufacturing plant of General Motors located in Pune, India
* **USA** : Visited twice to Silicon valley for training on working of semiconductor tools and to understand the installation procedure of the tools in the fab located in Santa Clara, The United States on America
* Diploma In AUTOCAD
* Diploma In Unigraphics

**ADDITIONAL RESPONSIBILITIES**

* Subject Matter Expert for MPD team in GMTC-I in the year 2011
* Served as Information Lifecycle Management coordinator for MPD team in GM(Team size of 80)
* Was active member of Work place Of Choice for Manufacturing Engineering team as well as for GMTC-I
* Represented Manufacturing Engineering in the Sexual Harassment Team and Women’s Council in GMTC-I

**ACADEMIA**

* BE in Industrial & Production Engineering from Malnad College of Engineering, Hassan in 2005 with an aggregate of 76.2 % - First class with Distinction
* **Pursuing Executive Post Graduate Diploma in Management (EPGDM) from Alliance University - Supply chain and logistics**

**PERSONAL DOSSIER**

Date of Birth: 20 March 1984

Gender: Female

Nationality: Indian

Languages Known: Kannada, English & Hindi and German A