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+91 7658957265

Mechanical Engineer

**M.V. CHETAN ADITYA**



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**Professional Summary**

Dedicated mechanical engineer with more than 4 years of experience in Digital Manufacturing, Process Engineering, Manufacturing & Industrial Engineering, Design, Development & Quality Assurance. Expert in CAD operation, and skilled producer of documentation and drawings associated with Mechanical Engineering. Recognized for a keen ability to improve design components, increase product and manufacturing efficiency, and decrease the constant need for re-engineering.



**Technical Tools**

* PTC Creo, Windchill
* Auto CAD
* MP Planner & W-Planner
* Solid Works
* Auto Desk Mould-flow
* Teamcenter VismockUp
* Microsoft office Technical Associate
* CATIA, UG-NX
* ANSYS work bench and APDL



**Professional Work Experience**

**CYIENT LTD - HYDERABAD**

**Manufacturing Engineer** **(Virtual Manufacturing)** 19/05/2022 to present.

**Manufacturing Engineer** and **Assembly Process Planning Engineer** for **John Deere** working under deputation of **CYIENT LTD**.

**Project: - Cotton Harvester Machine.**

* Working on EBOM & MBOM. Doing Sequencing of Parts flow in Vehicle Assembly. Creating visual aids & Operator Method Sheets (OMS) for Vehicle Assembly. Preparing Assembly Sequence & Validating Process for Vehicle Assembly using Teamcenter Visualization Mockup & Manufacturing Process Planner.
* Virtual build activities like hardware communization, DFMA (Design for Manufacture & Assembly), Tool reach and Interference Analysis, PEAT Analysis, Design for serviceability. Ergonomic study for operator feasibility & Ergonomics Process Simulation in Virtual Environment using Simulation Software.
* Working on Engineering Change Management. Working on Vehicle Benchmarking to Identify the best Process and Product and Implement it.
* Done layout design for John Deere plant for manufacturing of Cotton Harvester Machine using AutoCAD Architecture and Manufacturing Process Planner. Done work bench design, Jig and fixtures design using Creo Parametric software.
* Good knowledge of MPP-Manufacturing Process Planner Tool. Working on Process writing, Part assignment Execute and creating stations, Location, Sub-process, Task list, Task, Element Assignment and creating OMS (Operator Method Sheet) using Creo view, Windchill, Teamcenter-Vismockup.
* Responsible for define process flow of product, Time estimation, Manufacturing Process, Product Knowledge, Line balancing and Takt time. Working on Packout build issues & Tessellation issues of parts. Fixture and Tool accessibility validation as per manufacturing consideration.

**RENAULT NISSAN TECHNOLOGY & BUSINESS CENTRE INDIA- Chennai**

**Process Engineer,** 5/1/2022 to 13/05/2022

Renault Nissan Technology and Business Centre India (RNTBCI) under Deputation from **Expleo Technologies LTD Chennai** (on-site).

* Worked in Automobile Trims and Chassis Department. Created Global Operation Sheets (GOS) & FOP for Vehicle Assembly Line operations for Nissan Global projects (Nissan Kicks, Pathfinder & other International Models) using NXPDM, Space Vision, Teamcenter and Pro-APW.
* Estimating Design Standard Time (DST) for Vehicle parts assembly. Involved in Computer Aided Process Planning, Process Designing, Process Engineering & Assembly Process Planning related activities.
* Deciding the correct sequence of part assembly for vehicle Assembly. Involved in fixture design for easy handling of parts using Siemens Nx, CATIA & Enovia PDM.
* Done Ergonomics Analysis using Enovia for operator’s reachability considering the different Zones of reachability and suggest necessary process changes.
* Deciding proper tools need to be used for Vehicle Assembly as per the torque specifications & reachability.

**AXISCADES Technologies Limited.** – **Hyderabad**

**Process Planning Engineer,** 09.6.2021 to 31.12.2021 (6 months contract)

Creating assembly sequence and process planning for Heavy Earth Moving machine power train transmission parts by using **Teamcenter Vismock Up, Creo Parametric & AutoCAD.**

**Projects: CATERPILLAR REMAN Engines, Corinth. US & CATERPILLAR AXIL PLANT, CIPL Chennai**

**Manufacturing engineering service of Earthmoving equipment’s (AXISCADES).**

* Analysing ECM, Process changes for EBOM groups from HVC and update, modifying the operations in VBOM & MES Reman Application.
* Creating new assembly process sequence by using EBOM for particular Model in SUPERBOM.
* Identifying the VBOM/EBOM sequence issues and Updating torque values to give clear picture for assemblers while working on the model.
* Creating visual aids for the operations, to give clear picture for assemblers while working on the model.
* Quality checking of VBOM & Visual aid as per Process standards.
* HVC (Reading Engineering drawings), MCS to identify Bill of material (Group level, Top Level (or) product level) and routing of parts. Update MES (Manufacturing Execution System) as per MBOM
* Modelling and detailing of mechanical drawings for industrial products like lifting equipment’s for heavy engineering machines and control panels.
* Creating Production drawings, Assembly drawings and weldment assemblies.

**AMRITHA TOOL CRAFTS PRIVATE LIMITED - IDA Cherlapally, Hyderabad.**

**Tool Design Intern,** 1/9/2020 to 4/9/2021

* Done project work Internship as part of the Course Curriculum of ME-Tool Design at **Amritha Tool Crafts Pvt Ltd, Hyderabad**, premiere company in India in designing & manufacturing of injection molds & Blow moulds for various segments.
* Worked as Intern in Design Department involved in product design and mold Design & Detailing. Done 3D modeling of plastic components & Drafting In-house parts of Injection moulds on CREO 5.0 Design Software.

**VASANTHA TOOL CRAFTS PRIVATE LIMITED. – Hyderabad**

**Graduate Engineer Trainee,** 1/4/2019 to 30/4/2020 (**13 months**)

* Worked as **Process** **Planning** Engineer for manufacturing of high-quality **Plastic Injection Molds**.
* Design of in-house mold base parts of plastic injection mold and design of fixtures for easy of manufacturing.
* Involved in **Mould Manufacturing Process** of **Plastic Injection Mould** and involved in Realtime manufacturing operations**.** Worked as **Production Planning** **Engineer** for machine load planning and implementing the plan.
* Responsible for providing the Requisition of raw materials based on the initial drawing of all the mould jobs. Provide the sketches for the Milling and Grinding operations for the various mould jobs and electrode jobs that are further utilized in EDM Operation.
* Regular tracking of the jobs in house and follow up of the jobs that are sent to various vendors for various operations outside the firm. Plan the necessary sequence of operations on the jobs based on their requirements. Follow up of the parts that are sent for the Heat treatment and Nitriding operations and provide the sketches for outsourced jobs at Vendors.
* Plan Wire-cut, Optical Profile Grinding operations and provide the necessary instructions for the operations. Regularly follow the change level of design and update it to manufacturing department and make them implement.



**Education**

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| --- | --- | --- | --- | --- | --- |
| **S.No** | **Qualification** | **INSTITUTION** | **BOARD/ AFFILATION** | **Year of Pass** | **Percentage/ GPA** |
| 1 | **Masters in Engineering (TOOL DESIGN)** | Central Institute of Tool Design & OSMANIA UNIVERSITY | OSMANIA UNIVERSITY | 2021 | 87% |
| 2 | **Bachelor of Technology (MECHANICAL)** | Gokaraju Rangaraju Institute of Engineering and Technology | JNTU (AUTONOMOUS) | 2019 | 8.4 CGPA |
| 3 | **DIPLOMA (MECHANICAL ENGINEERING)** | Government Polytechnic Masabtank | SBTET | 2016 | 78% |
| 4 | **X** | Bashyam High School | SSC | 2013 | 9.3 GPA |

**Projects**

* Manufacturing of “**90 DEGREES STEERING MECHANISM”**.
* Manufacturing of “**MINI COMPRESSORLESS PELTIER REFRIGERATOR”**.
* **“DESIGN AND MOULD FLOW ANALYSIS OF KINLEY WATER BOTTLE CAP MOULD”** using Auto desk mould flow software and plastic injection molding machine.
* **“DESIGN OF SINGLE CAVITY FULLY HOT RUNNER PLASTIC INJECTION MOLD USING STRIPPER EJECTION MECHANISM FOR PRODUCTION OF BOTTLE CAP COMPONENTS”** using PTC Creo software.
* Seminar on **“CYCLE TIME REDUCTION IN INJECTION MOLDING PROCESS BY SELECTION OF ROBUST COOLING CHANNELS DESIGN”.**
* Seminar on **“METAL INJECTION MOLDING”.**



**Prominent Accolades**

* Certification in **Auto CAD** by SBTET.
* College 2nd in Designing of an Automobile body while doing Diploma.
* Certification in **Fuel injection Pump** by **Robert Bosch GmbH**
* Certification in **Auto Electrical** by **Robert Bosch GmbH**
* Certification in **Vehicle System Analyzer** by **Robert Bosch GmbH**

**Professional Training**

* 6 months Industrial Training in **Vasantha Tool Crafts Pvt. Ltd**, Hyderabad in Manufacturing Dept. Exposed to Production & Process Planning, machining & assembly of mould parts.
* 15 days Project Work Internship on the title **“Study of Manufacturing Process of Plastic Injection Moulds”**at **Vasantha Tool Crafts Pvt. Ltd**, Hyderabad.
* 1week joint certification course in **Automotive aftermarket training** conducted by **Robert Bosch GmbH** in Rajalakshmi Engineering College at Thandalam, Chennai.



**Languages**

* English
* Hindi
* Telugu



**Personal Details**

Father’s Name : MJ. VINAY KUMAR Marital Status : Single  
Birthday : March 29, 1998 Nationality : Indian  
Gender : Male

**Declaration**

I Chetan Aditya, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.

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 Date: