

MADDULA SATYA VENKATA NAGENDRA

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Location: Vadodara

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CAREER OBJECTIVE:

Looking for an expertise to put my considerable creativity and my ever-increasing interest in the latest trends in Mechanical design and development.

PROFESSIONAL SUMMARY:

Mechanical Design Engineer with 2.5 years of experience in designing and developing mechanical components of OFF-ROAD Vehicles. Skilled in **3D CAD Modelling**, **Sheet metal**, **BIW design**, **Hose routing**, 2D drawings using **GD&T**, **surface modeling** and **Project management**.

SKILLS/COMPETENCIES:

- **CAD SKILLS:** PTC CREO, CATIA V5, SOLIDWORKS, UGNX, AUTOCAD, ANSYS
- **DESIGN SKILLS:** SHEET METAL, CASTING, GD&T, SURFACE MODELING, BIW DESIGN, 2D DRAWINGS, REVERSE ENGINEERING, PLASTIC PART DESIGN, MANUFACTURING PROCESSES, CONCEPT DESIGN, TUBING, HOSE ROUTING, INTERIOR AND EXTERIOR TRIMS
- **PLM TOOL:** WINDCHILL
- **PRODUCTIVITY TOOLS:** MS POWERPOINT, WORD, EXCEL,
- **QUALITY AND ANALYSIS SKILLS:** SIX SIGMA, DFM, DFMEA, VAVE
- **PROGRAMMING LANGUAGES:** BASICS OF C, PYTHON

WORK EXPERIENCE:

L&T TS| Design Engineer |Vadodara

May 2021– Present

- Understand problems and translate them into detailed design specifications for sheet metal and casting parts considering the design constrain and design to refer existing part.
- Create detailed manufacturing drawings and assembly instructions including GD&T (Geometric Dimensioning and Tolerancing) specifications, to ensure that products can be manufactured and assembled to meet customer requirements.
- Perform Designing & Detailing as per ASME Y14.5 standards.
- Lead a team of 2-3 members with the estimation of the tasks, work allocation and continuous updates regarding the project to the Supervisors and stakeholders.
- Create Vehicle Engineering Routing Documents as per the customer requirement that works as manual to shop floor team for ease of understanding the routings and securements.
- Proficiency in remastering the Interior Trims such as Seat Base and Front Dash panels.
- Perform Vehicle clearance analysis for the packaging purpose maintaining & ensuring minimum clearance of 3-10 mm.
- Experience in creation of BOM (Bill of Material), BOM comparison with AS400 standard as per the assembly requirement.
- An Effective communicator with the clients, systems engineers and cross-functional teams, for resolving the production issues and smooth workflow of the project.
- Experience in Project Management, Time Management, On-time deliverables and Quality assurance.
- Route Electrical harness for pig tails and short cables without interferences with other assembly modules and maintain 3-5 mm clearance.
- Addressing the Design changes as per the customer requirement to prepare for production build (ECN/CN/ECO).

- Knowledge on Stamping processes, Milling and Welding operations, Press Tool design, Jigs and Fixtures.
- Involved in resolving project queries & work reviews within the team, Providing inputs to the project leader, and allocation of work in team projects.
- Performed Quality checks for design parts/assemblies and drawings as per customer standards and RCA, PPDA analysis for the reworks comes from customers.

PROJECTS:

- Mini Project on Stari Climbing Wheelchair
- A study on Temperature Distribution across the Tool Holder with Different Tools and Working conditions using Ansys Software (B.TECH Project)
- Regenerative Braking System (Diploma Project)

CERTIFICATIONS AND COURSES:

- Class A Surfacing in Catia V5
- Interior And Exterior Trims Design in Catia V5
- Essentials Of Part Design in SolidWorks
- Fundamentals Of Six Sigma And FMEA
- Certification of Press Tool design in CATIA V5

ACHEIVEMENTS:

- Appreciated with **SPOT AWARD** by company for adding value and dedication towards project.
- Achieved 1st Prize Winners in **CRICKET TOURNAMENT** and **VOLLEYBALL TOURNAMENT** held by **LTTS** company in 2022.
- Achieved award of “**ROLL OF HONOR**” Gold medal for Topper of the Batch in Mechanical Engineering 2016-2020.
- Achieved award of “**ACADEMIC TOPPER**” Silver medal for Topper of the Batch Among boys in 2016-2020 batch.
- **Campus Ambassador** representing my college for IIT BHUVANESWAR E-CELL, active member and event organizer supports ideas and innovations.

EDUCATION:

- B.Tech (Mechanical) from SRI VASAVI ENGINEERING COLLEGE,Tadepalligudem in 2017-2020 with 8.6 CGPA
- DIPLOMA (Mechanical) from KAKINADA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Korangi in 2014-2017 with 81%

PERSONAL DETAILS:

Date of Birth : Dec 05,1997

Gender : Male

Languages known : English, Hindi, Telugu

Permanent Address : West Godavari, Andhra Pradesh,534447

Declaration:

I hereby declare that the above information is true and correct to the best of my knowledge.

Date:

Place:

M.S.V Nagendra