



## MECHANICAL DESIGN ENGINEER

**Total Work Experience : 19 Yrs.**

**Mechanical Design Engineer : 10yrs.**

**Works Domains :** NPD, Reverse Engineering ,Machine Drawings ,Prototype ,Plastic & sheet metal Enclosures , Fabrication , Heavy fab Works. 2D to 3D conversion drawings.

As a Mechanical Design Engineer is responsible for designing and developing mechanical components and systems that meet the technical requirements of a product or project.

Responsibilities: Design and develop mechanical systems: Use computer-aided design (CAD) software to create detailed design drawings and models for mechanical components and systems. SolidWorks, AutoCAD, or CATIA.

**Develop prototypes:** Create and test prototypes of mechanical components and systems to ensure they meet technical specifications and design requirements.

Troubleshoot and problem-solve: Identify and solve technical problems related to mechanical components and systems.

Perform design analysis: Use analytical tools to assess the performance, reliability, and safety of mechanical designs.

Requirements: Proficient in CAD software: Experience with 2D and 3D CAD software such as SolidWorks, AutoCAD, or CATIA.

Problem-solving skills: Ability to identify and solve technical problems related to mechanical components and systems.

Experience with prototyping and testing mechanical components and systems.

**Manufacturing Experience : 9Yrs**

**Work domains:**

Strong Knowledge on drawing reviews, quality checks, 2d drawing development for vendors and internal machining.

Knowledge on GD&T, injection molds, Sheetmetal, jigs, fabrication(welding) structures. Heavy structures design and manufacturing and integration (Assembly) Can manage the team in tight schedule. Process planning for internal and external vendor development.

Knowledge on Process planning, product planning, project planning. capability to handle multi projects.

Machinist, internal & external QC, process drawings, process planning, time schedule for machining and product delivery, injection molds, hand molds, vax molds, silicon molds, sheet metal work for, electronic components shield, domes, covers, server racks. Etc....

Jigs& fixtures for ; Drill jigs , turning jigs , milling jigs , assembly fixtures , QC random checking fixtures.

Strong knowledge on machineries, like lathe, milling, grinding, drilling, cylindrical grinding.

Strong knowledge on equipment's like, vernier caliper, micro meter, bore gauge, depth gauge, thin gauge,

Strong knowledge on stage inspection, process inspection, vendor works, vendor drawing developments, as per drawing qc checking's, as per drawing sub and main assemblies.



## Core Competencies

- Team Building & Leadership
- Product Design & Development
- Good Knowledge in GD&T Manufacturing Drawings
- Knowledge in Molds, Press tools
- knowledge Jigs & fixtures.
- Good Knowledge in Vendor development.
- Quality Control stage and final
- Proto building.
- Verification & Validation.



## Soft Skills

- Work Ethics
- Learning & teaching
- Good Communication
- Project Presentation
- Self Motivated
- Project Responsibility
- Flexibility/Adaptability



## Training/Certification

CAD Course in Best Software's ,  
Hyderabad – 2008



## Education

- ❖ **B.E Mechanical** 2010-2013  
PIEM, Delhi (Distance)
- ❖ **Post Diploma in Tool Design** 2008-2009  
G.T.T.C Bangalore
- ❖ **Diploma in Tool Engineer** 2005-2007  
C.I.T.D Hyderabad
- ❖ **I.T.I Fitter** 2001-2003  
Ongole
- ❖ **S.S.C** 1998-1999  
Ongole



## Tool Skills

- **SolidWorks** : sketch, Part , assembly , Drafting, sheet metal , surface , weldments ,basic simulation.
- **Auto Cad** : 2D drafting mechanical , Machine drawings, civil drawing works.
- **Catia v5** : Part , assembly , surface
- **Creo** : Start-up
- **MS Office Tools**  
(word , excel , PowerPoint)
- **CorelDraw** : Art works.



## Career Path Design

### **Krishna Sai Engineering Works , Hyderabad**

July-2023 to Till

#### **Client location (Electro Circuit Systems) Hyderabad**

Asst. Manager (Design, Manufacturing Quality Control & Integration) Mechanical

Product Design & Reverse engineering developing and Manufacturing for RCI-DRDO, DRDL-BEL, BDL, ISRO, ECIL, ADANI, HAL, BHEL, Brahmos etc....., 3D Modelling & 2D GD&T drawing for Manufacturing. Process planning Procurement & vendor follow-up's , In-process & Final Quality approvals , Final assembly of tools.

Daily Client Interactions for design ,drawing , Quality & final component approvals.

Projects : DRDO-RCI CAS\_ULPGM ,CAS\_Nag , CAS\_Vshoard.

### **Redpine Signals.inc (Silicon labs), Hyderabad**

July-2013 to Jan-2019

Sr. Mechanical Design Engineer (Mechatronics)

- NPD\_Design & Reverse engineering of IoT Devices.

(Child, Commercial Vehicle, Mining vehicles tracking devices)

- Manufacturing drawing preparation.

- Proto type preparation & functional testing (Including onsite & Real time installation)

Projects Handled : Vehicle tracking devices (HZL) , DHL go down work tracing. Childrens

RTLS Tags , Home Appliances Heat sensor tags.

### **KrishnaSai Engg. Works, Hyderabad.**

Sep-2009 to June-2013

Jr. Design Engineer & Quality Control+

3D Modelling & 2D drawings.

Process planning Procurement & vendor follow-up's

In-process & Final Quality approvals Final assembly of tools

Projects : Agriculture ,Automobile, DRDO , HAL , BHEL & BEL.

Agriculture night carrying Lanterns (Based On Solar)

### **Profile Overview : Mechanical Engineer**

Manufacturing Experience : **9 Yrs.**

working experience in the field of Manufacturing Industries like HAL , BHEL , Sathyam Mahendra. Work as **tool and die maker , stage drawings , vendor follow up works , sheet metal , plastic hand molds , gauges.** Work as stage QC approvals , sub-assay fittings , work assign to fitters , machinists.

### **KrishnaSai Engg. Works, Hyderabad.**

Aug-2003 to July-2008

Tool & Die Maker.

- Process planning and stage drawings , stage inspections.

- Manufacturing drawing preparation of injections molds.

- Stage inspection of the tolling process.

- Final assembly of the mold , Fixtures , and gauges.

Area of Projects : Agriculture , DRDO , HAL , BHEL & BEL.

## SELF-EMPLOYEMENT

### Arindam Engineering & Equipments

Feb-2019 to June-2023

Self Employment /Projects Handling

Designing & Development & Etraction work.

- Onsite Installation as per customer site plan

**Project-1: Divi's Laboratories**, Unit-1, Choutouppal, Hyderabad.

- Redesigning of heavy structures form existing equipment's (Reactors, receivers, condensers, storage tanks, filters etc.)
- Preparing detail drawings for manufacturing of Heavy Bridges and Trusses.
- Manufacturing and assembly of heavy structures (30Mtrs trusses, 25 Mtrs heavy pipe line bridges, heavy tonnage Reactors , Receivers , Condensers equipment's, etc.)
- Quality check of welding and cleaning , wall thickness of the equipment's.
- Erection of the structures ( Trusses , Pipe line Bridges, Heavy SS 304 Pipe line, Reactors , receivers , conducers , storage tanks etc..)

**Project-2: Sai Life Sciences**, Unit-4, Bidar, Karnataka.

- Stage processing pipe line installation on daily project basis.
- Heavy equipment installation and restructuring based on project requirement for New product Implementation Process of Drugs.



### Languages

Telugu (Mother Tongue)	: Speak, Read, Write
English	: Speak, Read, Write
Hindi	: Speak, Read, Write
Kannada	: Read, Understand, Speak

### Personal Details

Father's Name	: Adinarayana K
Date of birth	: 09-07-1983
Passport Number	: H0892956
Martial status	: Single

Date :

Vishnusagar Kadiyala