



ABHINAW KRISHNA

Sr. Design Engineer (Hydraulics & Mechanical)
Research & Development

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SUMMARY

- ✓ Graduated in B.Tech from Mechanical engineering in 2015. Currently working with German OEM Group CLAAS INDIA from 4 Years.
- ✓ My total 6 years experienced is distributed into following **HYDRAULICS, DESIGN & DEVELOPMENT, PROJECT HANDELLING & TRAINING, and PROCESS ENGINEERING.**
- ✓ Right Now, I am working in CLAAS INDIA LTD. Here I am supporting two clients (German & French). I am looking for Linearization Projects, Hydraulics System Design, Schematics Design, Assembly Design, Routing of Hydraulics Pipes & Flexible Hoses, Selection of Various Hydraulics Valves, Hydraulics Calculations, Material Selection of Pipes, Update of Various Drawing (Assembly Drawing + Sheet metal Drawing), Digital Mock Up Analysis, BOM Synthesis, Project Management for Assembly Specification (Torque Analysis of 4000 Hrs) as well SAP documentation work. Here I am Using Catia V6, 3DExperience, UGNX.
- ✓ Gained Exposure from TPS INFRASTRUCTURE LTD through Heavy Duty Machine Design such as Hook Loader, Portable Compactor Vehicle, Industrial Vacuum Cleaner (IVC), Hydraulic Lifter Access Platform, Garbage Tipper & Refused Compactor Vehicle (RCV). Here I was looking for CIRCUIT DESIGN (SCHEMATICS DESIGN), BOM & Applications. Here, I used AutoCAD.
- ✓ Gained Exposure from BEST KOKI LTD through Process Engineering, Plant Layout, Plant Shifting, SPM Design, Installing New Projects & Fixture Design. Here, I used AutoCAD & Catia.

EXPERTISE

Hydraulic schematics & circuits diagrams, 3D Hoses & Rigid Pipe Routing, Concept Design of Hydraulics & Mechanical System Design, 3D CAD modelling & creating drawings, Engineering Calculations, Testing & Validation, also expertise in application of hydraulics valves(automatic & Manual), Quality Control, problem diagnosis and solutions implementations, Vehicle Integration & Linearization of Vehicle.

SKILLS

- ❖ **CATIA V5/V6/3DExperience R420.20**
 - Tubing Module – Routing - Designing Rigid Pipes, Flexible Hoses, Placing Hydraulics Components, Schematics Design, Cylinder Design
 - Assembly Design – BOM Creation in CAD, Placing Mechanical Hardware in Vehicle Environment, Digital Mock Up Analysis & Clash Analysis
 - Drawing & Detailing – Assembly Drawing, Sheet Metal Drawing, Welding Drawing, Part & Component Drawing
 - Collaborative & Lifecycle – Promoting Parts to EP, Major Revision Evolution & Duplicating any Part and Assembly Structure
 - Surface design – Sheath Design, Tube Design, Multi Section
 - Sheet metal design
- ❖ **Hydraulics Assembly Machines, Special Purpose Machine& Application of Various Functional Hydraulic Valves**
 - Refused Compactor Vehicle, Road Sweeper, Claas Tractor, Harvester Machine
 - Access Platform, Garbage Tipper, Portable Compactor
 - Direction Control valve, Manifold Block, Machine Connector
 - Counter Balance Valve, Hose Burst Valve, Spool Valve, Check Valve
 - Hydraulics Motor, Pressure Relief Valve

❖ **Plant Engineering**

- Plant shifting
- New Project Installing
- Assembly Cells for Different Projects
- New Plant Layout 2D Drawing (About 60 Revisions) - AutoCAD
- Positioning of machines Into New Plant with Flow of Material Development

❖ **Machine Drafting Software : AutoCAD**

- Schematics Diagram (Circuit Design)
- Sketch Drafting – Plant Layout with more than 60 Revisions
- Also expressed 3D into Isometric View
- Usage of UCS and other 150 tools

❖ **CAD Software**

- Catia v5/v6/3DEXperience/ProE/AutoCAD/UGNX
- Team Centre : Positioning of Parts, BOM, Assemblies & Sub-Assemblies
- UGNX : Assembly Design & Hydraulic Ports design into Hydraulics Valve
- Enovia PLM : Restructuring Assemblies for CAD work
- ANSYS : College Project analysis of Jet Nozzle

WORK EXPERIENCE

CLAAS INDIA LTD - Sr. Design Engineer (R&D)

Since : Aug 2017 - Now

Role in Brief

- New product development & Current Product Improvement
- Currently using 3DEXPERIENCE R423.4 & R423.8
- Sheet metal (Part) Design and Basic Drawings (v5-v6)
- Part Drawings, Assembly Drawings and Detailing
- Tractor 3D Environment Creation with Master Data & SAP BOM
- Hydraulics Routings(Rigid & Flexible Pipes) at V6 And making their drawings Catia v6
- Assembly Drawings - Pipe Drawings
- Data Migration from V5 to V6
- UGNX Assembly Design (Team Centre)
- Product Lifecycle Management
- Designing sheet metal, Cables & Wire at Surface Design
- Creating schematics Diagram for 3d Hydraulic Routings at Catia
- Technical study of Hydraulics Assembly and its working
- Creating Assembly structure in catia v6 and v5
- Generating BOM from SAP
- Working with Technical Hydraulic System for tractors
- Linearization of Vehicle with Projects B20,B21,B22
- Independent Project Handling for 4000 Hrs and providing training to colleagues
- Specifications & DE specification of different Project Vehicle
- Creating Parts Structure at Enovia VPM
- Updating 3D and 2D parts to Enovia VPM
- Creating hydraulics ports to Hydraulic fittings at UG -NX

Best Koki Automotive Ltd - Design Engineer

Since: Aug 2016 - July 2017

Role in Brief

- Designing of Plant Layout according to child flow and material flow.
- Plant Shifting and Plant Engineering.

- Involved in Fixture Design.
- Part Design & Manufacturing Accessories Design.
- Development of Special Purpose Machine (S P M)
- Working with Moulding Machine
- Successfully installed Welding Robot Cell
- Working with Process Flow Diagram
- Working with Control Plan to represent parameters of process and Product
- Readiness in Production Trial Run Report and Machine Commissioning documents
- Provided POKAYOKE Check sheet to each machines
- Worked with functional team for APQP activities
- Representing the each machines in 2D layout.
- Process flow and Material flow.
- Receiving and Manipulation in the design data as Part of Process Engineering.
- Representation of KAIZEN each months.
- Verification of Hydraulic Faults.
- Manipulation of BOM.
- Working with control flow chart.
- 3D Assembly of parts at Catia v5.
- 2D Drafting at AutoCAD 2007 & 2012.
- Drafting at Catia v5 according to control plan.
- Problem solving of Automation Machines.
- Involving with German Client for Business point of view.

TPS INFRASTRUCTURE LTD – Graduate Engineer Trainee

Since : November 2015 - Aug 2016

Role in Brief

- Technical working for made hydraulic machines.
- Manipulations of items and components required for completion of machines.
- Evaluation and Completion of Bill of Materials.
- Drawing of Hydraulic Circuit Diagram.
- Operating the Machines as it is working successfully or not.
- Sending the diagram to Quality Department for Approval.
- Several Manual and Issue slip lists are made for Production.
- Microsoft Dynamics NAV
- AutoCAD LT 2016
- Testing & Validation of Hydraulics Machine

EDUCATION

Qualification	Passing Year	Stream	Name of the Institute	Board/University	%tag e
B.Tech.	2015	ME	ITS Engineering College	Dr.A.P.J Abdul Kalam University	74
12 th	2011	PCM	Sri Chaitanya,Vizag , AP.	CBSE	65
10 th	2009		J.A.C Ranchi, Jharkhand	Jharkhand board	74

DECLARATION

I hereby declare that all the information furnished above is true to the best of my knowledge.

Place : Mohali, Punjab

Date :

Abhinaw Krishna