

AKSHAY R S

Mechanical Design Engineer

SPM Design | Solid Works | AutoCAD | SAP

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Mechanical Engineer with 3 years of experience in Design and Specialized in Modeling and Processing Parts of Extruder Machines. Proficient in Design with focus on Design and Development of Machining Process Drawings, Special Purpose Machine Design (SPM). Hands on Experience in Design Software like Solidworks, Auto CAD and PLM software SAP.

EXPERIENCE

Bharat Fritz Werner Ltd, Bengaluru, Karnataka

R&D Engineer May 2022 – Present

Software Use: Solidworks, AutoCAD, SAP

Job Responsibilities:

- Design of optimized structures based on static and dynamic analysis.
- Design of test rig to test and validate the flow Geo polymer concrete material for 3D printing.
- Static and dynamic analysis of machine components by using frequency domain.
- Conversion of casting structures into fabricated structures.
- Creation of conceptual design of modular machines which is in line with Industry 4.0.
- Design of automation base pallet for machine assembly on conveyor.
- Design and development of chip clearing tool.

Merritt Innovative Solutions India Pvt. Ltd, Bengaluru, Karnataka

Mechanical Design Engineer May 2021 – May 2022

Client: Steer Engineering Pvt Ltd

Software Use: Solidworks, AutoCAD, SAP

Job Responsibilities:

- Creating concept design of machine with tentative dimensions.
- Design and development of extruders and their peripherals through solid works and AutoCAD.
- Preparation of 2D drawing of each individual components, sub-assemblies, assemblies along with the implementation of GD&T, welding and Surface Finish.
- Preparing Piping & Instruments (P&I) diagram.
- Understanding the customer requirements and preparing the suitable design according to the Requirements.
- Calculating of CG point & preparing drawings of it for logistics purpose.
- Revising the excising component based on Customer Requirement.
- Developing Machine Layout Design and Calculating CG point.
- Rendering and animation in solidworks for customer meetings and presentations.

SKILLS

Solid works, Solid Edge, AutoCAD, SAP, UGNX

Part Modeling, Sheet metal, Drafting

Design for Manufacturability, Design for Assembly, Design for Manufacture and Assembly

Geometric Dimensioning & Tolerancing (GD&T)

Basic Manufacturing Knowledge

Excel, PowerPoint, Word

EDUCATION

Sri Krishna

Institute of

Technology

Bachelor of Engineering in Mechanical Engineering

CGPA:- 7.92

LANGUAGES

English

Kannada

Hindi

Bharat Electronics limited, Bengaluru, Karnataka
Graduate Apprentice Trainee, February 2020 – April 2021
Software Used: Solidworks, AutoCAD, SAP

Job Responsibilities:

- Designing of products using Solid works and also drafting using AutoCAD software.
- Preparation of required 3D models of complete machine according to the requirement.
- Design improvements and development of parts which are easy for Manufacturing.
- Creation of BOM, selection of materials, defining of operations and finish required.
- Documentation of the same using PLM module in SAP/ERP.
- Preparing Sheet metal models & Fabrication drawings.
- Design and motion analysis of 19" keyboard tray store the lengthier keyboard in than the standard.
- 19" rack, motion analysis was made to ensure no rubbing or Collision of components while usage.