

TEK011431 (PTC - Windchill - 10 + Year)

■ Bachelor of Engineering

Highlights

- Experienced Mechanical Engineer keen on working in the industry in order to obtain knowledge & help solve problems using innovative and creative tactics while contributing a diligent & efficient work ethic to parallel the company's current & future goals.

Skills**Primary Skills**

- CAD Management
- Windchill Business Admin
- Windchill Support

Secondary Skills

- BOM Management
- Change Management
- Configuration Management
- Windchill Workflow

Other Skills

- Skilled in Creo-4.0, SolidWorks2021, Team center, PDM, 3S-ERP & MS office.
- Well versed with 3D Modeling, Heavy structure Design, Top-Down approach and Detailing.
- New Product Development in Sheet metal, Hydraulics, Chassis Design and Piping.
- Possess knowledge on GD&T-tolerance stack up analysis, Welding symbol standards PPAP and FMEA.

Projects**Project - 1**

Role : Senior Engineer - PDM

Responsibilities :

- Install, configure ,maintain and CAD support and PDM, develop and continuous improvements Impacting CAD and PDM.
- Packing of Bill of Material (MBOM) creation and maintenance.
- Assisting Engineers and support staff with PDM and engineering documentation control related issues.
- Implementing CAD Data migration from PDM to PLM system.
- Train the CAD user's testing and implementation of PLM system.
- Developing a set of standards and practices for creating and maintaining all CAD Data

Project - 2 (9 months)

Role : Senior Engineer - Design

Responsibilities :

- Design of Hose, Tubes & Hybrid assemblies as per higher level assembly, with appropriate clamping Locations and suitable path without any interference in assemblies.
- Performing 3D- Parametric Modeling and Detailing of Hose, Tube, Hybrid assemblies.
- Selection of hardware components Adaptors, Couplings and End fitting using PST (part selection Tool).
- Development and optimize of hydraulic filters for engine lines and other lines for off highway vehicles.
- Posses knowledge in hydraulics schematic drawings and requirements provided by customer and immediate response with proper solutions.
- Perform Swivel Analysis for hose length validation in articulated position.
- Performing Sign in & off operation of ECN & BOM operation from Team center.
- Daily collaboration with global engineers on prioritizing, interacting with customer and query solving.

Project - 3 (9 months)

Role : Senior Project Engineer

Responsibilities :

- Indigenization of Entire Biogas and vendor development for manufacturing the entire Components and field erection.
- Process to collect energy requirements from customer and analyse customer requirements.
- Preparation of project planning, scheduling and cost estimation.
- Developed machine arrangement field layout for erection and commissioning

Project - 4 (80 months)

Role : Engineer - Design

Responsibilities :

Machine Tool Development Welding Fixture

- Developed concept layout of entire Machine Tools of Gantry and Horizontal M/c'ing Centre
- Develops the 3D models in Top –down design techniques
- Prepared detailed drawings for manufacturing process.
- Material selection and analytical calculation for all structural members.
- Developed vendors for developing of “Mother Machine”
- Developed machine arrangement field layout of erection and commissioning.

Product Development of Chassis and Hydraulics Caterpillar Trucks – MD4400D, 770G

- Design, validation and optimization of Main Frame, Sub frame, Sheet Metal, routings, sheet metal and casting mounting brackets, mounting strategy and complete vehicle integration.
- Designing of components concerning DFMEA points of previous design and preparing DFMEA for several stages of the proposed frame and complete assembly.
- Designing of fuel lines and coolant lines with appropriate clamping locations without interference to locate in next level assembly.
- Concept development and material selection of hydraulics routings in Hose and Tubes in Brakes Lines, Control Group, Dump Body, Lines Group –Water, Brake, Engine.

- Selection of clamping materials for Hose, Steel tubes, Piping and End fittings based on functional requirements using PST (Part Selection Tool).

Project - 5 (21 months)

Role : Design Engineer

Responsibilities :

- Pro-engineer and Auto-Cad in the engineering, design and production of pumps, motors.
- Created installation assembly, cast, and part drawings
- Product Design, Bill of materials, Quality plan

Project - 6 (6 months)

Role : Engineer Trainee

Responsibilities :

- Checked construction and civil engineering contractors' performance against specifications, codes, and drawings.
- Followed up With External Contractors, Project Owners and Other Stakeholders to Gather Information and resolve Issues.
- Implement Safety and Accident Prevention Programs for Each Project