## OBJECTIVE:

Aspiring to take up a challenging career in Design & Development, contributing the best Professional talent with innovations to the challenging environment, which provides new ideas and simulates professional growth, encourages continuous learning and personal growth.

## PROFESSIONAL SUMMARY:

Mechanical Design Engineer with having 3+ years of experience in Aerospace Systems, New Product Development, Value Engineering, Engineering Change Management, Hydraulic components and electromechanical systems. Graduated in Mechanical Engineering from RVCE, Bangalore

**Product Design & CAD/CAE:**

* Responsible for Supporting Design & Manufacturing Teams in creating Casting components, Machined parts, Fabrications, Assemblies and generation of production drawings for aerospace components according to design intent using CAD Tools like, Catia V5, Unigraphics NX7.5, Solidworks..

**Data Management:**

* Creating Bill of Materials, having good knowledge in Engineering Change Management. Effectively using Team Center and PM-smart which tracks all the projects details.

1. **TECHNICAL SKILLS:**

* 5 years of experience in New Product Development, Value Engineering, Engineering Change Management, Hydraulic components and Electromechanical systems
* Familiarity with mechanical aircraft components and systems.
* Presently working with UTC Aerospace Systems, Bangalore as Aerospace Engineer-II
* 3+ Years Work experience in Aerospace and Industrial Domain
* Highly conversant in UNIGRAPHICS, Catia, TEAM CENTER.
* Coordinating the Engineering activities and performing the design reviews & audits
* Good Knowledge in GD&T and Stackup
* Knowledge on Dimensioning & Tolerancing standard ASME Y 14.5M – 1994.
* Positive attitude and team player.
* Good communication, customer interaction and project coordinating skills
* Good Experience/knowledge in Conceptual design, Re-Design
* Good knowledge of ACE Tools.
* Good knowledge on EAR and ITAR regulations.
* Good knowledge on Flammability of seating materials.
* Good knowledge on REACH analysis.
* Exposure to sustain engineering activities, generating part lists/BOM, hands on experience in CAD tools and sound understanding of engineering principles and product development process

1. **SOFTWARE SKILLS**

* **CAD / CAE Tools:**
* Catia V5
* Unigraphics NX 7.5
* Solidworks
* **PDM & PLM Tools:**
* PM-Smart
* Team Center

**ORGANIZATIONAL EXPERIENCE:**

## 1. [VOLVO INDIA PVT LIMITED](http://www.linkedin.com/search?search=&company=VOLVO+INDIA+PVT+LIMITED&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

**Designation:** [**Graduate Project Trainee**](http://www.linkedin.com/search?search=&title=GRADUATE+PROJECT+TRAINEE&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

**Duration:** **January 2012 – July 2012 (7 months)**

1. Development of compaction gauge for soil and asphalt compactors using mechatronics and

Vibration principles

2. Online testing of a soil compaction gauge at varies client locations  
 3. Training compactor operators to use compaction gauge for measuring compaction value

## 2. HCL TECHNOLOGIES: AUG-2012 to Aug 2014

An HCL R&D service (aero division) is a leading provider of diversified engineering services and manufacturing. The company supports customers in the aerospace, automotive, power generation, oil and gas verticals to cut product development costs, shorten lead times, extend capacity and maximize engineering resources availability by providing support across the complete product life cycle.

## PROJECT DETAILS

**Client: Meggit OECO**

**Engineering Design Support for creation of end connectors and back shells with 100’s of configurations:**

Overview: Concept Design, develop and production drawing release end connector and back shells for the aerospace wire harness use

**Accomplishments:**

* Concept design of back shells and end connector’s with mutli configurations.
* Daily Design review with onsite Project Engineer.
* Modeling of backshells and end connector’s with mutli configurations.
* Creation of design table for incorporating multi configurations (more than 100).
* Good knowledge of design standards and UK and US.
* Detail drawing creation for Production with respect to ASME 14.5 Y 1994.

**Roles and Responsibilities:**

* Coordinating the projects start from execution, client interaction, technical & status reviews and on time quality delivery for the design.
* Handling Design Change Notifications.
* Designing of casting components and machined parts.
* Design validation of Brake housing using Pro-e Mechanism and clearance analysis.
* Tolerance analysis simulating GD&T for existing and new designs.
* Design and development of Test stand and Brake testing equipment’s for new designs.
* Creation of Manufacturing operation sheets and Assembly process plan.

**Client: MEGGiT control systems -North Hollywood**

**Engineering Design Support for aerospace valves and industrial valves:**

Overview: Design support and production drawing release of aerospace valves such as Isolation valves, double manifold valves, industrial valves, ground fueling valve

**Accomplishments:**

* Improved the Quality process by implementing the Design Level Quality Check list.
* Involved in streamlining the process flow, which reduced the turnaround time and hence improved the productivity.
* Weekly Design and status reviews with client.
* Detail drawing creation for Production with respect to ASME 14.5 Y 1994.
* Knowledge sharing of project techniques with team, building best practices, lessons learnt documents.
* Carrying out stack-up analysis for the valve parts and valve sub-assemblies and valve main assemblies

**Roles and Responsibilities:**

* Initial data processing and study of design considerations.
* Design modifications per engineering change order (ECO).
* Production drawing release thru Engineering change request (ECR).
* Modeling and assembly of the various valves and valves and valve assemblies.
* Technical interaction with customer to get design approvals.
* Creation of detail, fabrication and assembly drawings for production in accordance with ASME 14.5 Y 1994.
* Generating Bill of materials and assigning proper specifications to the components.
* Quality checking of production drawings in line with limits & fits, geometrical tolerances, accuracies & feasibilities.
* Ensuring proper data management by using PM-smart.

**Client: Boeing - Legacy conversion and creating mono detail drawings for Boeing AH-6 Helicopter using Unigraphics NX6.0**

**PROJECT NAME** : ENGINE BAY DOOR ASSEMBLY. RING INSTALLATION, TAIL BOOM ASSY

**CLIENT** : BOEING

**SOFTWARE** : UNIGRAPHICS NX6.5, TEAMCENTER 8.3, CATIA V5.

**Accomplishments:**

* + Creation of Structural components of AH-6i Helicopter using NMG’s.
  + Remastering work by using CATIA V5 R18.
  + Designing of Fuselage as per design proposals in UG NX 6.5.
  + Designing, Drafting and Assembly of Aero Structure components using UG NX 6.5.
  + Aerospace sheet metal design, Solid modeling 3D components for AH-6i.
  + Resolving design issues, optimizing the design.
  + Managing the Nomenclature in UG NX 6.5 tree as per standards.
  + Managing Product data in TEAM CENTER.

**RESPONSIBILITIES**:

* Input study and problem statement.
* Generating the part dimensions using CATIA V5.
* Creation of 3D Models in Unigraphics by using the generated dimension in CATIAV5.
* Generation of 2D drafting for the 3D model created.
* Declaration of material specifications, Finish, Notes pertaining to the drawings, attaching the Assessment documents.
* Creation of 2D Drawings and installation Drawings.
* Creation of 2D drawings for aero structure components as per Boeing standards

Some of parts like Filler, Bracket, Longerons, Doublers, Skin, and Clips are used in the Engine Bay Door Assembly. Rings, Frames, Longerons, Doublers, Stiffeners, Skin, and Clips are used in the Ring Installation. Frame, Tube, Chanel, Skin, Doublers, and Stiffeners are used in the Tail Boom Assy.

## 3; UTC aerospace systems (Aug-2014 to Jun-2018)

Overview: Exposure to sustain engineering activities, generating part lists/BOM, hands on experience in CAD tools and sound understanding of engineering principles and product development process using design tool Unigraphics and PLM tool Teamcenter.

**Clients: Airbus: A380 cargo systems**

**Boeing- 777-9 Cargo systems CDR closure**

**Bombardier C-Series MOC Evaluation**

**Airbus A380 Material of concerns (MOC) research**

**Accomplishments:**

* Improved the Quality process by implementing the Design Level Quality Check list.
* Worked on A380 program cargo systems in the design department
* Working on and having good knowledge on A380 materials and finish processes used in airbus systems
* Involved in streamlining the process flow, which reduced the turnaround time and hence improved the productivity.
* Detail drawing creation for Production with respect to ASME 14.5 Y 1994 using Unigraphics and Teamcenter as a PLM tool.
* Knowledge sharing of project techniques with team, building best practices, Creation of lessons learnt documents by using quality tools and PLM tools.

**Roles and Responsibilities:**

* Initial data processing and study of design considerations.
* Design modifications per engineering change order (ECO).
* Sustaining engineering activities viz., Creation of ECNs, Generating part lists and BOM using Unigraphics NX and Team center.
* Ensuring all engineering and organizational quality matrics and process adhered to provide technical assistance to the team members on drafting, GD&T, mechanical design etc.
* Coordinating the Engineering activities and performing the design reviews & audits by PLM tools
* Knowledge on Dimensioning & Tolerancing standard ASME Y 14.5M – 1994.
* Positive attitude and team player.
* Good communication, customer interaction and project coordinating skills
* Good Experience/knowledge in Conceptual design, Re-Design
* Good knowledge of ACE Tools.
* Good knowledge on EAR and ITAR regulations.
* Good knowledge on Flammability of seating materials.
* Good knowledge on REACH analysis.
* Exposure to sustain engineering activities, generating part lists/BOM, hands on experience in CAD tools and sound understanding of engineering principles and product development process

## 3; SD Group of companies (jun-2018 to Till date)

Overview: Exposure to sustain engineering activities, generating part lists/BOM, hands on experience in CAD tools and sound understanding of engineering principles and product development process using design tool Unigraphics and PLM tool Teamcenter.

* Coordinating the projects start from execution, client interaction, technical & status reviews and on time quality delivery for the design.
* Handling Design Change Notifications.
* Designing of casting components and machined parts.
* Design validation of Brake housing using UG NX Mechanism and clearance analysis.

## PROFESSIONAL QUALIFICATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Degree** | **College** | **University** | **Percentage** | **Year** |
| BE (Mech) | RVCE, Bangalore | Visveswaraya Technological University | 8.5 | 2012 |
| DME | Government Polytechnic, Chintamani | Board of Technical Education | 86.5 | 2009 |

## Co-CIRCULAR ACTIVITIES AND AWARDS

1. Completed 15 days training in automobile Servicing and Maintenance Technology at GD Naidu institute, coimbathur.

Internships (1 month Internship)

Bharath Earth Movers Ltd (BEML),

Role: As an in-plant Trainee in the following divisions,

•Earth mover division

•H&P division.

2.Stood as college topper and won recognition awards

3. Served as a student representative in the college for 3 years months

4.Participated in International workshop on process industries held in RV college of Engineering, Bangalore.

5. Received “Spot award” for best performance and recognition from the customer for efficient and committed support.

## PERSONAL INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
| Date of Birth | : | 03 MAY 1989. | |
| Marital Status | : | Single | |
| Residence | : | Whitefield, Bangalore. | |
| Passport number | : Z2461477 | |

Date of issue : 24-Sep-2012

Date of expiry : 23-Sep-2022

Place of issue : Bangalore

mso56