

# RESUME

Ajith Joseph. J

Email Id: ajith3596@gmail.com

Contact No: +91 - 9543120066

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## OBJECTIVE

With an overall experience of **Six Years** in **Concept Designing** and **New Product Designing and Development**, my personal perspective is to secure a challenging career in your organization and utilize my skills in an environment that will enhance the company growth. To follow, to implement, to develop and to execute, wide range of projects utilizing the cutting edges of latest technologies.

## KEY SKILLS

- Experience in **Plastic, Sheet Metal** and **Machining** components Design and Development.
- **Solidworks / Creo** Modeling and Assembly Proficiency.
- Experience in **Creo Wire Harness** design and **Windchill**.
- Knowledge in **GD&T** and **Stack up** Analysis.
- Intermediate in **Keyshot** Rendering and Animation.
- Knowledge in **3D Printing** for Prototype.

## PROFESSIONAL EXPERIENCE

### Design Engineer

Lennox International, Chennai

(Oct 2023 - Present Date)

#### PROJECT WORKED

##### Project: New Regulation Updates

- Creating Concepts Design and detailed design considering new regulation.
- Having review meeting with various team for design evaluation.
- Updating the current design for the newer regulation.
- Preparing the Cable wire harness design to help assembly team in production.
- Preparing and releasing the drawings for the Production.
- Preparing Models for FEA and CFD analysis.
- Preparing the Rendering images for the drawing to support production team.

### Lead Engineer

HCL Technology, Chennai

(Aug 2022 – Aug 2023)

#### PROJECT WORKED

##### Project: Siemens Medical Products Sustainability

- Updating current design due to Customer complaints and material updating.
- Creating Parametric 3D models of the scanned parts for preparing Injection Mold Design.
- Updating the Drawing to the Latest Siemens Template and preparing Drawing Checklist.
- Solving various issues in the product by Prototyping and testing.

## **Design Engineer**

Design-Art Industrial Design Studio – Chennai, India

(Sep 2021- Aug 2022)

### **PROJECT WORKED**

#### **Project: Toys Design.**

- Participated in initial concept development with the Designer and marketing team.
- Designed a Complete 3d model for prototype Testing.
- Discussed with manufacturing engineer for material selection, price optimization, DFA and DFM analysis.
- Completion of Detailed Engineered 3d model with following the Standard IS 9873 - Part 1.
- Discussed with Plastic Mold Manufacture for mold complexity.

#### **Project: Bus Front and Rear Panel Design**

- Converted Class A surface to Manufacturable Panel.
- Discussed with manufacturer for updating the Model for required condition like Lamps Mounting, Glass Mounting, Structure Mounting of panel.
- Preparing the models for Wood Pattern Milling.
- Assisting with Fiber-reinforced plastic (FRP) Manufacturer for assembling the wood Pattern to Preparing the Die and making Panel.
- Preparing various tools and Mockups for assembling the wooden pattern.
- Preparing Master section of the various cross section for Development Discussions.
- Preparing Rendering images of the model for Presentation and Marketing Team.

#### **Project: Scissor Lift**

- Preparing Complete 3D model for human carrying Scissor lift
- Optimizing the 3D model for Structural analysis. And updating the model based on the analysis report.
- Preparing the Drawing and BOM for manufacturing of the components.
- Coordinating the Manufacturing process of the components.
- Assembling and testing the Scissor lift.

## **Design Engineer**

MGH Labs Pvt Ltd – Chennai, India

(Aug 2019- Aug 2021)

### **PROJECT WORKED**

#### **Project: Bluspider Indoor and Outdoor Device.**

- Discussed with the Industrial Designer, Production and Quality Team during Product Development
- Modeled the concept sketches into 3D models and preparing the rendering for concept presentation
- Engineering the selected concept for manufacturing.
- Preparing the model for CFD analysis. Analyzing the result and updates the model.
- Preparing the 3D prototypes for fitment, assembly process, product testing.
- Communicating with model makers for manufacturability of the parts.

- Selecting the materials, colour, textures, with the Industrial Designers.
- Communication with purchase team by providing the details of materials, components used in the product.
- Providing and assisting the production team with product assembly sequence flow images and charts.
- Preparing and providing model quality drawing to the quality team.
- Preparing rendering image for brochures, posters, for marketing team.

## **Design Engineer**

Centroid Design Pvt. Ltd - Chennai, India.

(Aug 2018- Aug 2019)

### **PROJECT WORKED**

#### **Project: Autobot**

- To Design a compact Automobile for transporting two persons in a predefined path powered by battery.
- 3D Modeled the Frame, various Components, Gear and Metal Blocks with considering the Design for Manufacturing and Design for Assembly.
- Engineering Detailing the complete model for Prototype and material selection for the components.
- Releasing the Drawing for manufacturing.
- Completely Assembled Prototype model.

#### **Project: Pump Control Panel Design**

- Creating Concept Model from the design sketches
- Engineering the 3D Models for the final selected concepts considering DFM and DFA by discussing with the client.
- Preparing Rendering images for the Presentation.
- Making 3D Prototype in FRP and 3D Printing for Assembly fitment.

#### **Project: Solar Panel Cleaning Robot**

- To Design a robot for cleaning the solar panel automatically.
- 3d Modelled the frames, outer covers, various components, caterpillar wheels of the robot.
- Engineering Detailing the complete model for Manufacturing.
- 3D Rendering the final model for the Presentation using.

## **EDUCATION QUALIFICATION**

**B.E in Mechanical Engineering:** (2017) CGPA 7.44/10

Peri Institute of Technology (Anna University) Chennai, Tamil Nadu.

**LANGUAGE KNOWN** – TAMIL & ENGLISH