

## CAREER OBJECTIVE

To pursue a challenging career in Product Design and Development and be a valued member in an organization, which has a competitive environment that encourages innovation, learning and creativity. I wish to work in an organization, where I can explore all my skills and grow my career along with the organization growth. Willing to relocate.

---

## EXPERIENCE

- ❖ **L&T TECHNOLOGY SERVICE, Bangalore.** From Aug-2022 to still date as **Senior engineer.**
  - ❖ **HCL TECHNOLOGY, Madurai.** From May -2020 to Aug-2022 as **Lead Engineer.**
  - ❖ **PRICOL LIMITED", Coimbatore,** from Jan-2018 to Mar-2020 as **Engineer.**
  - ❖ **G Plast (P) LTD, Coimbatore,** from Sep-2016 to Sep-2017 as **Tool Design Trainee Engineer.**
- 

## TECHNICAL SKILLS

- **Creo / Pro-E:** Part Modeling, Surface Modeling, Mould design, Sheet Metal, Assembly, Cabling and Detailing
  - **CATIA-V5 :** Part Modeling, Surface Modeling, Sheet Metal, Cabling, Assembly and Detailing.
  - **Solid works:** Part Modeling, Surface Modeling, Cabling, Assembly and Detailing.
  - **AutoCAD**
  - **PLM / PDM: Windchill, SAP and Agile.**
  - Knowledge in Design and development of **Electro-Mechanical** enclosure and packaging.
  - Knowledge in Design and development of **Instrument Clusters, Fuel Pump Module, Tilt sensor** (2-Wheeler, 4-Wheeler & Off-Road applications)
  - Knowledge in **Plastics & Sheet metal & casting** design by considering **DFM, DFA, DFC & DFT.**
  - Knowledge in **GD&T** with ASME Y14.5 2018.
  - Knowledge in **Fixture Design** for Products.
  - Knowledge in **DFMEA, APQP, PPAP, CSLA.**
  - Knowledge in **Reverse Engineering** of mechanical components.
  - Knowledge in Layouts preparation for **PCB, Assy. PCB, LCD.**
  - knowledge in **Tolerance Stack-up analysis.**
  - Knowledge in Automotive, Medical & Consumer Product.
-

## PROJECTS OVERVIEW

**Product** : Automotive & Consumer (Tilt sensor, Instrument panel and Vasoview hemopro medical power supply)  
**Client** : HONDA and Medtronic (Deputed from L&T technology)

### Role – Senior Engineer

- Design and development activities – Development plan, Product requirement study, Reference/Benchmark Study, Design with guidelines, Design calculation, layout finalization Modeling and Detailing with DFM, DFA, DFS, Costing, VAVE, DFMEA, RCA, Assy. Line verification, SIR, proto samples, Customer complaint analysis & solving at field condition, DOE& Customer interaction.
- Good understanding of manufacturing process such as Plastic injection moulding. Developing Testing Fixtures for DVP validation.
- Accountable for concept development, Teardown analysis, CAD modeling, Concept optimization and stack up analysis and creating detailed design specification document as per client requirements.
- Read and interpreted blueprints, technical drawings, design requirements document, Manufacturing control document and DFMEA.
- Understand customer design proposal, specification and manuals to evaluate feasibility, cost, maintenance requirement of design.
- Developed communication documentation to help to convey key design aspects to clients.
- Developed concept model from product specification using CREO-6 and CATIA-V5 software.
- Managed continuous improvement project.

**Product : Medical equipment for surgical stapler and consumer products**  
**Client: Johnson and Johnson Deputed from HCL technology**

### Role - Lead Engineer

- Design and development activities – Development plan, Product requirement study, Reference/Benchmark Study, Design with guidelines, Design calculation, layout finalization Modeling and Detailing with DFM, DFA, DFS, Costing, VAVE, DFMEA, RCA, Assy. Line verification, SIR, proto samples, Customer complaint analysis & solving at field condition, DOE& Customer interaction.
- Identifying mechanical design requirements, concept developing, detail engineering, tear down analysis, project execution and risk analysis. Continuous improvement and VA/VE activities.
- Good understanding of manufacturing process such as Plastic injection moulding. Developing Testing Fixtures for DVP validation.
- Design and Development of Medical Equipment components.
- 3D modeling, Assembling and Detailing of Sheet metal, plastic components and enclosure design.
- Developing Testing Fixtures for DVP validation.
- Preparing design documents and layouts to get design approval.
- Developed concept model from product specification using CREO-6.

---

**Product : (Automotive) Instrument Clusters Electronic, Fuel pump module**  
**Client: Suzuki, Hero, TVS and TATA motor (Deputed from Pricol limited)**

### Role - Engineer

- Design & Development activities of Instrument Clusters, Fuel pump module.
- RFQ Conversion from scratch to production line & Worked with Customer SOR and create PES for the project.

- Engineering Design and development activities – Development plan, Product requirement study, Reference/ Benchmark Study, Design with guidelines, Design calculation, layout finalization Modeling and Detailing with DFM, DFA, DFS, Costing, VAVE, DFMEA, RCA, Assy. Line verification, SIR, proto samples, Customer complaint analysis & solving at vehicle level validation & field condition, DOE& Customer interaction.
- Design Review with CFT members& Customers
- Preparation of Tolerance Stack up analysis report and Material selection based on application requirement.
- Engineering and Production BOM preparation in SAP.
- Design/Product validation (Testing) activities.
- DCN/ECN activities along with Customer requirement/Design improvement.
- Continuous improvement and VA/VE activities.
- IATF-APQP documentation& PPAP.
- Adequate knowledge in designing Plastics, Machining & sheet metal components with consideration of GD&T and IP Clause.

**Product : WASHER, CHUCK VALVE STEAM, STOPPER NUT and REAR COVER.**  
**Client : Bosch, Wayne fueling system, Visteon, Watertec.**  
**(Deputed - G Plast (P) Ltd ).**

### **Roles & Responsibilities :**

#### **Role:Tool Design Trainee.**

- Plastic Mould design & Product design & Drafting.
- Preparing Design validation Dimensions & Planning Fixture design.
- Design and created part drawing and assembly drawing including BOM and detail drawings application of GD&T for manufacturing.

### **EDUCATIONAL QUALIFICATION**

COURSE	INSTITUT E	SCORED	YEAR
Post Diploma In Tool Design	Gedee Technical Training Institute, Coimbatore.	77%	2016
B. E Mechanical Engineering	GKM College of Engg & Technology, Chennai.	6.6 CGPA	2015
Diploma in Mechanical Engineering.	Lakshmi Ammal Polytechnic College, Kovilpatti.	76%	2012
SSLC	Government High School, Vellaiyapuram.	74%	2009

### **PERSONAL DETAILS**

Father's Name : M.Subburaj  
 Date of Birth : 06-Jan-1994  
 Nationality : Indian  
 Marital Status : Married  
 Language known : English, Tamil and Telugu

### **COMMUNICATION ADDRESS:**

#1/113 A.Vellaiyapuram,  
 Aruppukottai (Talk), Virudhunagar (Dist),  
 Tamilnadu – 626112.  
 INDIA.

### **Declaration**

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

**Place :**

**Date :**

**SIGNATURE**