BARANIDARAN SUNDARRAJ

Industrial Product Design Engineer

PROFILE

My Philosophy is to learn new things and enrich my knowledge and skill continually and to obtain a challenging position to show my skills and achieve excellence in my job.

CONTACT

Coimbatore, India

+91-9578919603

barani.satheesh@gmail.com

SOFTWARE KNOWN

AutoCAD, Solid Works and Ansys workbench, Creo, UG NX and Pro-E.

Microsoft Office, SAP, PDM, Adobe Illustrator and Blender.

CERTIFICATION

Professional Master Diploma in product design and Analysis-**CADD CENTER**

LANGUAGE KNOWN

Tamil, English &Kannada

WORK EXPERIENCE (10 YEARS)

SIEGER SPINTECH EQUIPMENTS PVT LTD (DESIGN ENGINEER)

Nov 2021 to present. Coimbatore, India

- Developing new products using Solid Works, AutoCAD for industrial automations like Sheet handling and storage Automation solutions.
- Done design and development of automatic vertical storage and retrieval system for different size sheets and plates.
- Responsible for Conceptual design, Material selection, engineering calculations and improve part design by frontloading approach.
- Responsible for verifying the design against past product problems, DFMEA, DFM, DFA requirements.
- Responsible for verifying design for DFX- design for assy, mfg, cost & reliability.
- Conduct FEA for structural analysis and heavy fabrication parts using Ansys workbench.

EUROTECH FZCO (DESIGN ENGINEER)

Mar 2015 – Aug 2021 Dubai, UAE

- Knowledge in development of MV and LV electric panels, metal enclosures and Form four cubicles.
- Preparing of drawings related to the panels and blank development using Auto CAD, Pro-E and SOLID WORKS
- Knowledge in developing panels as per the IEC 61439-1&2 and the UL508.
- Preparation of Bill of materials (BOM) using EPR.
- Responsible for verifying design for assy, mfg, cost & installation.
- Improve part design by frontloading approach, develop part with the suppliers and release the part for PPAP.
- Creating layouts and working procedure in 3D animation by using Blender to easy understanding for customers and marketing peoples.

UNITECH INDIA PVT LTD (JUNIOR ENGINEER)

May 2013 – Feb 2015 Coimbatore, India

- Drafted and detailed all drawings for fabrication, assembly and installation. Using UG NX and AutoCAD and applying GD&T.
- Design and developing Sheet metal encoders as per standard and customer specification
- Preparing cutting layouts for prefabrication of parts.
- Planned and executed production schedule requirements.
- Check & achieve target for cost drivers including weight and quality
- Feasibility study for ease of manufacturing like DFM.
- Design change feasibility and design modification of component to meet specific customer requirements.

EDUCATION

BE - Mechanical engineering
P.A College of Engineering & Technology
Jun 2010 – Apr 2013 Pollachii, india

Diploma in Mechanical Engineering
P.A polytechnic college
Jun 2007 – April 2010 Pollachi, India

AREA OF INTEREST

Product Design, Design Calculation, Drafting, Analyzing Problem, Pneumatic System and Special purpose Machine (SPM).

STRENGTH

Hard Working, Quick Learner.

PERSONAL SKILLS

- 3D Animation using Blender
- Quick Learner
- Adaptive to any kind of situation and people
- Ability to work independently and in a team environment
- Effective interpersonal relationship

SSLC
Govt Higher Secondary School
March 2007 Negemam, India

PROJECT HANDLED

Messer Cutting System – Delco - USA

- **Role:** Design and Development.
- **Duration:** Ten months.
  - **Achievements:** Design and development of CE complaint for fully automated Sheet handling system for Plasma Cutting Machine. Rope drive mechanism used in the lifer to lifting the 5 Ton payload. Select the proper gear motor and chain sprockets to increase the efficiency and life time of the machine. Risk assessment (Performance level) done for the machines.

Messer Cutting System – Ryerson - USA

- **Role:** Design and Development.
- **Duration**: Six months.
  - **Achievements**: Designed optimized equipment layout GA for installing machines of various sizes in the same bay. Optimized the lifter to use multiple tower storage systems. Modify the vacuum cup and valve pack circuits (Pneumatic system) to lift the multiple size plates in one machine.

Messer Cutting System – Miller Fab - USA

- **Role:** Design and customization.
- **Duration:** Four months.
  - **Achievements:** Designed the cost effective fully pneumatic controlled automatic sheet handling system for 3015 Laser Cutting machine to lift Max 500 Kg sheet metal after extensive discussions on specifications and customer requirement.

DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned.

Date:
Place: Coimbatore **Baranidaran S**