



SIVASANKAR KRISHNAN

Electro-Mechanical Design Engineer

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Overview:

Graduate Mechanical Engineer fascinated by Science & Technology, thereby developing a strong desire towards Product Engineering. Extensive experience in New Product Development (NPD) & Product Lifecycle Management (PLM), currently seeking opportunities in design & development of electro mechanical products.

Experience Highlights:

- A qualified Mechanical Engineer with 3 years of work experience in Design & Development, Modelling, Drafting and Assembly with design skills of Plastics and Sheet metal in software such as **SOLID WORKS**, **CREO** and **AUTOCAD**.
- High level of proficiency, competency and productivity along with the ability to create high-quality and concise models. Hands on experience in Electro-mechanical rack product designs and development.
- Hands on experience in both sheet metal and plastic design and development.
- Vendor/Supplier Identification and approvals for various mechanical parts procurement.

Professional Summary:

- Working in **Solitude Technology Pvt Ltd**, since 2019.
- Currently deployed in **Ametek Instrumental India Pvt Ltd**, as a design engineer working on the design and development of rack mountable power supply systems.
- Deployed to **Enphase Energy** as a design engineer, worked on the design and development of solar-related/inverter products for US markets, for 5 Months.

Academic Details:

- B.E (Mechanical Engineering) in Anna University, Karpagam Institute of Technology, 2019 - 70%

Work Exposure and Technical Proficiency:

- Design and Development of Plastics and Sheetmetal parts.
- Hand on Experience in Software's such as Solidworks, Creo, Auto CAD and MS Office.
- Prototyping of SLA, 3DP and Sheetmetal parts.
- Experience in Conceptualization, Engineering Design, R&D Innovation, Design of IP rated Products and Proof of concepts.

Project Experience:

- **Engineering Change Management:**

Evaluate the Engineering Change Requests and execute them once ECO is assigned. This includes re-creating / updating CAD models (PDM), revising designs drawings (PLM) and monitoring the change implementation through change controls (QMS).

- **Advanced Solar Array Simulator:**

Currently working in design and development of solar array simulator (also artificial sun or sunlight simulator) is a device that provides illumination approximating natural sunlight. The purpose of this solar simulator is to provide a controllable indoor test facility under laboratory conditions.

- **DC Power Supplies:**

Designed products related to Rack mountable DC power supply systems in various configurations based on input and output power levels (like 1U Multioutput and Half rack). This device used for tests, measurements and power conditioning applications across a wide variety of industrial segments. Device has designed to host a list of features including PAR IN/OUT, SER IN/OUT, USB and Ethernet.

- **Electric Vehicle Charger (AC):**

Designed a compact IP54 rated electric vehicle AC charger for four-wheeler with 7.2kW output. This device has designed to host a list of features including NFC, GSM, WIFI, USB and Ethernet. Product has both wall mount and pedestal mounting options.

- **Electric Vehicle Simulator:**

Designed a Enclosure for Electric vehicle simulator, used to perform real-time simulation of electric vehicle Chargers.

- **Encharge R3 (Inverter):**

Played a supportive role in design and development of Encharge R3 product, like creating new concepts, Updating 2D drawings, Cable routing and cable drawing update.

Other Projects:

- Supported design team for 3KVA inverter modelling and drawing activities.
- Designed an enclosure for automatic hand Sanitizer Dispenser.

Job Responsibilities:

- Sheet metal, Plastic part design and development for Electromechanical OEM customers.
- Using solid works and Creo software for the design and development of sheet metal, plastic parts and CAD-related activities. Knowledge in selection of connectors and cable routing.
- Interaction with ECAD and Electrical design teams for product Development.
- ECN, ECO & agile-related activities for engineering drawing & BOM release in Arena, MAN-MAN, Aras, and Query DB tools.
- Involve in New Product Development- from Ideation to Realisation.
- Co-ordinate with suppliers for prototype & part qualification responsibilities.
- Involved in proto types fabrication, part procurement with sheet metal and RPT Suppliers.
- Preparation of full documentation including detailed assembly drawing, sub part drawing, specification and B.O.M. generation.

Personal Data:

Nationality: Indian

Date of Birth: 15 March 1997

Marital Status: Single

Languages: English, Tamil, Telugu and Kannada

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