

Veenadevi Dasaraju

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Professional Summary

Mechanical Design & Development Engineer with **8** years of experience with R&D and Sustaining departments by delivering solutions with high quality to the Customers on time. High-performing & strategic-thinking professional in engineering services Of Medical Devices. Skills in Mechanical Design and product Development lifecycle of, suction coagulators, Enclosures, sample preparation, sequencing, qpcr systems, analyzer products HPM devices and Equipment Manufacturing. Ability to train the team members and increase team competency skills, work on multiple projects and cross-functional teams effectively resolving customer complaints for enhancing customer satisfaction by on time Deliverables.

Areas of Expertise

- End to end exposure to New Product Development **Medical devices (sample preparation, sequencing, qpcr and analyzer products).**
- Extensive exposure in all phases of Product development like **Conceptualization, Detailed design 2D & 3D, Verification & Validation, Sustainance and VAVE Projects, Design Controls, Complete PLM(Agile) PC&EC, Windchill & PDM activities and Regulatory Compliance for medical devices.**
- Experience of working with cross functions like **Manufacturing, Quality, Regulatory, Production & Planning.** Good knowledge on manufacturing process like **sheet metal design, machine component design & Plastic parts design.**
- Expert in **BoM creation, BoM comparison with Wins, PLM** and process related- Compliance electrical and electronic parts, Item change request preparation for mechanical parts, SAP BoM's scrub work, CAD study, SAP vs Drawing vs CAD check list and handling team Metrics.
- Knowledge in **ISO 9001, RCA and Process adherence.**
- Experience on **Big data and CAPA activities** for Medical devices.
- Worked as **Component engineer for Compliance (RoHS etc)** related works.
- Experience in **Material selection, LEAN manufacturing, Stake holder management and Project management.**
- Technical Expertise in **Cable drawing Creation in Soildworks, AutoCAD and Creo.**
- Experience on Modeling, Drawing, GD&T and **sheet metal in solid works and Creo.**
- Experience on Standard Drawing Templates creation in AutoCAD 2014.

Onsite Exposure

- Localization of Falcon project from Finland to Singapore.
- Sustaining activities, PLM activities, onsite problem solving & support.
- Remediation activities as per **IEC 60601, ISO 13485 and ISO 14971.**
- Global project new Manufacturing setup at Mexico

Educational Qualification

- **Bachelor of Engineering in Mechanical (B.E – MECH)** from N.B. K. R Institute of science and technology, Vidyannagar in Nellore, AP – 2013 to 2017.
- **Awards/ Achievements**
- Received 4 Pat on back award and 1 outstanding performer and 1 team award
- Part of Converse team leader and Milestones event Organizer
- CSR leader and Idea generation team member

Technical Skills

- CAD Tools : **Solid works, Creo & Auto cad.**
- General Apps : **MS-Office, PPI (Practical process improvement)**

- PLM tool: **Agile EC and PC and EPDM, Windchill, BAAN, SAP PR1 System, Teamcenter, Master control, Agile Advantage & D365.**
- Complaints handling Tools: **RoHS, Reach, Prop65, China Rohs, EU-regulations, ACM asbestos Japan regulations, EPA complaints, Track wise, SAP objects, ISO9001, IEC 60601, ISO 13485, ISO 14971.**
- Six Sigma Tools : **Pugh Matrix, Kanban System, 5S System, Five Whys and Fish bone diagram.**

Professional Experience

1) Designation: Master modeler at Northern Tool + Equipment (NTE) India.

July 2023 – March 2025

Job Description:

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- Working as a senior **Master modeler**, managing a team of 4+ associates including **VAVE Engineers**, and **CAD Designers**.
 - **Empowered the team to take complete ownership** of the Engineering activities as part of the global Engineering Team.
 - Lead the team to successfully complete **500+ assembly drawings+ 10 VAVE projects**.
 - Builds and maintains master model assemblies for new products that are developed and run.
 - Creates and releases 3D models, part numbers, BoM structure, detailed drawings, and final assemblies by using creo 8.0.5.0.
 - Analyzes design options, confers with necessary staff to resolve details not completely defined; or, generates design concepts with layouts indicating alternative designs and recommended solutions
 - Actively participates in a design, development or testing peer group, Manage EPA complaints for house hold equipment's.
 - Working experience in bill of material (BoM) creation and management in PLM (D365)/PDM
 - Reviews engineering drawings and supporting documents to verify ANSI Y14.5 GD&T practices and adherence to company and/or industry standard practices.

2) Designation: CAPA Product quality engineer at Cyient

Jan 2022 – July 2023 Client: **Philips & Medtronic's**

APS&Q Project: HPM (Hospital Patient Monitoring) Devices: EU-MDR Projects: Surgical Instruments

Job Description:

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- CAPA Severity identified, CAPA Quality Control for Document Changes Process sampling plan, Parts to CAPA search, Creating/Updating Story boards for CAPA, CAPA Site Mapping.
 - Working on Big data Tier 1, 2 and 3, Aging analysis, Complaints handling and Ad hoc Requests.
 - Having experience by **“preparing PRD, PS, IFU's, Change log, labels, drawings, IOVV, Bio compatibility matrix, and surface area calculations for medical devices”**.
 - Remediation activities as per **IEC 60601, ISO 13485 and ISO 14971**.

3) Designation: Senior CAD Designer at iLenSys Technologies Pvt Ltd

Jun 2017 – Oct 2021 Client: **Thermo fisher Scientific**

NPI Project: R&D & Laboratory products Valkyrie (NGS Products)

Job Description:

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- Design & Development Engineer- Modelling, Assembly design and drawing creation.
 - BOM generations, Material Selection, ISO Document and design for manufacturing creation and release.
 - Experience in Drafting, detailing in 2D-3D modelling with software's like AutoCAD, Solid works.
 - Good knowledge and hands-on experience on advance assemblies and layouts with GD&T, surface finishes, welding details and engineering notes, BOM Preparation, Cost Analysis, General Arrangement Drawings.
 - HLA Activates and BOM scrub.
 - Preparation of Bill of Material, Drawing updates on cable drawings in Solidworks and AutoCAD.

- Setting up all product hierarchy details, Handling customer queries and Handling dashboards.
- Preparing SSDS, NPSS Tracker, documents (RoHS) and Releasing Bom's into PLM tool Agile.
- Creation of SKU's, ECO's, ECR's, MCO's, DCO's and AWR'S creation, Verification and Validation of Boms.
- Assigning engineers to get approval for releasing all parts and changes if any through ECO's, and MCO's
- Preparation of Design for manufacturing, Design for Assembly and Technical design review.
- Preparation of Part dimension measurement drawings and GD & T application.
- Knowledge about Fabrication, machining & Sheet metal Product Design Guidelines.
- Project Tracking, Maintain & Organization of Product design data.
- Communicating with cross functional team like Manufacturing, Quality, Regulatory, Production & Planning to get required data.

Major projects Executed

- **Falcon project** for Thermofisher scientific **LSG** (Clinical sequencing Division)
- **Kingfisher** sample preparation models for Thermofisher scientific **LSG** (CSD)
- **Falcon Apex** project for Thermofisher scientific **LSG** (CSD)
- **Project GT (Quant Studio 6 & 7 Pro)** Real-Time PCR Systems for Thermofisher scientific **LSG** (Genetic Science Division)
- **Kouprey** R&D that measures TNU in PCR and qPCR instruments for **LSG** (GSD)
- **8 BALL** R&D PCR and qPCR instruments for **LSG** (GSD)
- **ICSP Projects: ICS6000 DC, ICS600 EG, ASAP and ICS600 DP** water analyzers for thermofisher scientific (CMD)
- **e-DMR and Relationship TAB management**- Agile verification for thermo parts from Agile and MC, Data mapping by using MC info cards.
- **Compliance project**- Regulatory Quality check for parts, collecting Rohs, Reach and Prop 65, Interact with vendors, checking PO'S, uploading documents into Green soft solutions for TFS.
- **Sustaining Projects** for TFS and LSG.
- **Global project with 500+ products**

Key Responsibility & job role

- Modeling, Drawing, GD&T and sheet metal in solid works and Creo and PLM activities.
- HLA Activates, ECO management and BOM creation and scrub.
- Localization and Standardization of falcon drawings by using Creo and Auto cad.
- Cable drawing Updates, Inventory discrepancy Bom issue by comparing Boms with Work instructions.
- Translation of Work instruction documents from Finnish to English
- Material selection, hand calculations and designing.
- Designing of Machined components, Sheetmetal components and foundation drawings by using 3D to 2D software tools.
- Applied DFM & DFA and GD&T for part design & development.

Personal Details

- **Address:** Hyderabad
- **Date of Birth** : 11/03/1996
- **Having Passport** : Yes
- **LinkedIn profile Link** : <https://www.linkedin.com/in/dasarraju-veenadevi-056008139>.
- **Preferred Location:** Ready for relocation