ROHITH ADDAGATLA

MECHANICAL DESIGN ENGINEER

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Present role :

Senior Design Engineer | Research & Development Department | SensaCore Medical Instrumentation Pvt. Ltd.|

Roles & Responsibilities:

- Creates CAD models, including part and assembly drawings, Bill of Materials (BOMs) to support manufacturing, testing and assembly, and support components to assist with assembly. Product Design & development.
- Designs parts, components and assemblies to meet requirements of assigned projects.
- Jigs & fixtures designing to mitigate time consumption
- Communicating with Client & vendor since from development stage to till pilot batch dispatch.
- Develop and build prototypes and run tests to measure their level of function
- Design development Documentation and Risk analysis

Software Skills:

- Creo
- Solid works
- AutoCAD
- MS office

Academics:

Bachelor of Technology in Mechanical (2018) : 67 %
College: St. Mary's engineering college science & technology, Hyderabad.

Diploma in Mechanical (2015): 66%

College: TRR Polytechnic College, Hyderabad.

Profile Summary

Over a **4 years** of experience on **Creo, Solidworks and AutoCAD** with extreme reliable knowledge on Product designing (**plastic/mold part and Sheet metal**) and design controls documentation with handful of experience on **Medical Devices manufacturing (in-vitro Diagnostics).** As an Innovative Mechanical Designer driven to bring customized design concepts to life in order to guarantee complete customer satisfaction. As a part of **Research and Development** team involved in Design documentation and maintained as per **ISO 13485 regulatory affairs** in stage wise. Able to perform Learning by Doing in every task and correlate multiple work tasks simultaneously to achieve optimum results. Also, aware of GD&T.

Organisation: **Sensa Core Medical Instrumentation Pvt ltd.**
Duration: February 2018 - Present

Work Experience:

Project: Arterial blood gas analyser (ABGEM).

- Designed various mechanical **plastic & metal** components modules for ABGEM analyzers such as ISE- Electrode, Flip mechanism, Pinch valve flow system, Tab enclosures in **Creo, Solid works & AutoCAD software's.**
- Provided detail mechanical General Assembly design and individual part design for each module including Tolerances. For instance, converting 3D modelling into 2D drawing to manufacture the product.
- As per the requirement initiated new proposal designs for the clients with aesthetical looks. Moreover, designed multiple parts to meet functional requirement with the consideration of Die feasibility.
- Prepared mechanical Bill of Materials (BOMs) which fits in the product to support manufacturing, testing and assembly, and support components to assist with assembly

- Responsible for product designs for manufacture ability, cost and quality. (e.g.molding, turning, machining,)
- Manage all stages of the mechanical design process for electronic medical devices.
- Investigate production problems related to parts design, fit, function and/or process design. Recommend counter measures and improvements.

Project: Blood Glucose Meter:

- Initiated number of proposal designs with the respective of user needs and reporting to customer for the approval of any modifications and revisions in design like **Dr.Trust , Control D and Nureca** .
- Designed & developed numerous models of portable type Glucometer for handy use and compatible for measuring.
- Chosen different types of plastic material as per the consideration of application and plastics materials shrinkage tolerances.
- Collaborated with R&D electronics team to develop the PCB design according to
- Meters were designed as per the **ISO 14385** to meet the Medical regulatory standards.
- Conducting internal meetings weekly to know the status of the projects with production team, material management team and the quality team.

Project: Hemaglobin Meter:

- Designed Hemaglobin meter that suitable for Reflectance photometry principle which measures results with the source of light.
- Meter had been designed with snap lock for easy to assemble and for production productivity.
- Chosen multiple types of plastic material Such as ABS, Acrylic, Nylon.
- Disposable Strip design (POCT) has made for measuring Hemaglobin in human body.
- Initiated automation process for hemaglobin strip manufacturing right from raw material to finished goods.
- Collaborated with manufacturing team to create liquid dispensing, row cutting and Individual strip cutting.

Project: Hematology analysers:

- Sheet metal chassis has been designed to mount the various module such as **(Vacuum chamber, Horizontal & vertical Slider, and Sample syringe module, Pinch valve, Hemoglobin Flow cell chambers).**
- Providing sheet metal bending drawings and Laser cut drawing to vendor.
- Developed with assist of various mechanisms and Accomplished the Hematology product with high precision in the medical results.
- Maintained version control for every design change, also maintained Standard operating procedure (SOP'S) to assembly the individual parts.
- Acquired wide range of knowledge in terms of mechanism development and designing complex parts with draft angles for Mold releasing purpose.
- Discussion with vendors while manufacturing and segregating weekly report of development stage to accomplish product within the timeline.
- Provided necessary fixing parts & jigs arrangements for electronic components, such as Mother board, Temperature sensors, grounding connections.

- Responsible for preparing mechanical Bill of material as per the Assembly and General assembly drawing.

Personal Details

Date of birth **:** 25 August 1994
Languages Known : English, Hindi and Telugu,
Marital Status **:** Unmarried
Present location **:** Hyderabad
Permanent address : Plot no. 94, Srinivasapuram colony, Vansthalipuram, Hyderabad.

DECLARATION:

I hereby declare that particulars given above are true to the best of my knowledge.

Place: Hyderabad
Date: (Rohith Addagatla)