**ROHITH ADDAGATLA**

**MECHANICAL DESIGN ENGINEER**

**`**

**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.

📱 +91 8919811151

+91 8143850452

✉ [rohith.addagatla@gmail.com](mailto:rohith.addagatla@gmail.com)

**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.

|  |
| --- |
| **Present Role:**  Senior Design Engineer | Research & Development Sensa Cor |

**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)