

MOHAMED SHAFIQ. A

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Total Experience: 5 Years

Career Objective:

To utilize my technical skills for achieving the target and developing the best performance in the organization. I would like to implement my innovative ideas, skills and creativity for accomplishing the projects.

Core competencies:

- Having good experience and knowledge on ASME Y14.5 & GD&T.
- Certified for GD&T from Indian Machine Tools Manufacturers Association (IMTMA).
- Hands-on experience in Infusion products and Hypodermic needles.
- Hands-on experience in orthopedic products and devices.
- Hands-on experience in Tolerance Stack-up Analysis using traditional method and 3D CAD method.
- Solid works for the development of new products creating 3D parts and 2D drafting, FEA.
- Different Approaches in Advance Statistics in Data analysis.
- Hands-on experience in Strategic Planning of Process on Controlling and Execution for Design Projects.
- Hands-on experience in Product Development Cycle and New Product Development Cycle.
- Good in preparing Production Part Approval Process and Advanced Product Quality Planning documents.
- Experienced in Design of Experiments, Design verification using Advance Statistical Approach.
- Good Knowledge in Plastics.
- Good Knowledge in Medical Standards – ISO 13485, ISO 14971, ISO 11607, ISO 594-1 & 2, ISO 10555-1 & 5 and other Medical standards.
- Project Planning using Microsoft Project Plan (MPP).

Professional Experience:

1. BOSTON SCIENTIFIC, IND – Senior Design Engineer (NPD – Peripheral Interventions) Deputed By: Cyient Ltd

From November 2017 to till date.

- Design of the Peripheral Intervention catheters with NextGen Technologies.
- Tolerance Stack-up Analysis and 3D model creation and 2D detailing.
- Test Methods and Testing.

Projects:

- NextGen Peripheral Intervention Catheters:
 - Owing full design concepts and creating the 3D model and 2D detailing.
 - Performing the tolerance stack-up analysis.
 - Owing all test methods and test fixture designing.

2. SMITH & NEPHEW PLC, UK – Design Engineer (NPD – Orthopedic Implants) Adler Mediequip, Pune

From December 2016 to November 2017

- 3D Tolerance Stack-up Analysis Projects and 3D model creation and 2D detailing drawing creation applying GD&T.
- Dimensional Verification Analysis, Design Verification, Design Output, Design Validation documentations.
- FEA Analysis, FEA Model Simplification, FEA Reports,. etc.

Projects:

- Value Engineering:
 - Conversion of Orthopedic Implant Plates and Nails, 3D Model Creation, 2D Drawing Creation applying GD&T, Support Design for Manufacturability (Adler Mediequip, Pvt. Ltd.).
 - Design Document Creation, FEA Analysis and FEA Report.
- Value Analysis:
 - Total Knee, Hip & Shoulder Replacement; Trauma Plates (General & Dynamic Locking plates); Trauma Products for Asian Market – Hip & Knee TiAL4V Nails.
- Functional Areas: - New Product Development: Intellectual property Research, Literature Review for Design Rationale, Design optimization for ease of manufacturing & cost reduction, Design Verification & Validation, Concept Modeling & FEA Simulation (Solidworks & Simulation Premium), Reverse Engineering.

3. Becton Dickinson Co. – Product Development Engineer Deputed By: HCL Technologies Engineering R&D Services

From June 2014 to December 2016.

Awarded 200 Dollars for Design Solution

- Responsible for Sustaining Engineering Projects.
- Handling CAD remediation and Tolerance Stack-up Analysis Projects.
- Well experienced in Design Verification and Validation process.
- Prototype Lab testing activities using single column UTM, torque test and leakage test.
- Responsible for 3D model creation and 2D drafting of Infusion products using Solid Works.
- Organizer for Project management activities, Client Weekly/Monthly meeting and Senior Management meetings.
- Consistent recognition from customer for the timely deliverables.
- Strong ability to perform in Statistical Analysis, Design Documentation and all medical standards.
- Preparing Design control documents, Project Presentations and Design Guide Documents.

Projects:

- 510K Design Change Project:
 - Given a design solution for the change in design for the project and rewarded with 200 dollars as appreciation from clients.

- Tested the entire product requirement affected by design change, updated all the 2D and 3D CAD files. Corrected all plant affecting documents and successfully completed the verification activity in the project.
- Done mold design for the new design change and proved the results using the Design of Experiments.
- Presented a paper on Probit Analysis to reduce sample size for product requirement testing, recognized by project manager and clients.
- CAD Remediation Project:
 - Did Dimensional Verification Analysis and proved the results meeting the product requirement. Modified 56 2D CAD file in two days and got appreciation from clients for timely delivery.
- Tolerance Analysis:
 - Successfully completed a tolerance analysis for the snap fit for the plastic part using Traditional method. Met the compliance requirement using Non-DVA tolerance analysis.

4. RANE MADRAS LTD – Graduate Trainee

From Jan 2013 to May 2014

Role:Quality Engineer

- Expert in handling all kinds of engineering measurement device.
- In-charge for patrol Inspection, Process and Product Audit.
- Involved in New Product Development and Layout Inspection.
- Creating and reviewing drawing per ASME Y14.5 and GD&T.
- Handled Scraping and Rejection handling in SAP.
- Involved in creating and reviewing drawing.
- Involved in conducting Internal Audit and guiding them to reduce the rejections through gauge planning and poke yoke identification & implementations.

Project:

- Layout Inspection for Ashok Leyland Distribution Truck Tie Rod
 - Created the detailed drawing on the full assembly Tie Rod for Ashok Leyland Distribution Truck
 - Supported in creating the control plan for the Tie Rod
 - Implemented Poke Yoke fixture for the Tie Rod to avoid wrong threading at the ends.
 - Measure all control plan parameters using physical measurement device, UTM, surface roughness measuring machine and torque stimulator.
 - Successfully demonstrated and educated the Tie Rod assembly inspection plan and measurement technique to operator and unit quality engineers.

Computer Proficiency:

Technical Tool Proficiencies

SolidWorks

Catia

Pro-E

Creo 2.0

Statistical Tool Proficiencies

Minitab

Crystal Ball

Academic Qualification:

Qualification	Institute	Percentage
B.E Mechanical Engineering (2008-2012)	Dhaanish Ahmed College of Engineering	7.83 cgpa
Higher Secondary (2008)	Sita Devi Garodia Hindu vidyalaya	74.60%
SSLC (2006)	Sita Devi Garodia Hindu vidyalaya	70.80%

Certifications:

- Certified in Mechanical CADD from CADDAM Technologies Chennai
- Certified for course in Intermediate from British Council, Chennai

Awards, Achievements and other activities:

- 2 Times Winner and 1 time Runner-up in Zonal Level Kho-Kho Match during Schooling.
- 2 Times Runners-up in District Level Kho-Kho Match during Schooling.
- Under gone one week in-plant training in ICF and Chennai Port Trust.
- Won Second Place in 'INNO MEASUREMENT' National Level Symposium – CRESTECH2011.
- Participated SAE Tier1, Tier2, various Symposiums and one day workshop on RC CAR and SOLID WORKS in college.
- Treasurer of SAE club in college.

Declaration:

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

Date:

Signature

Place: Chennai.

(A. Mohamed Shafiq)