ANIRUDDHA JOSHI

Scaling new heights of success with hard work & dedication and leaving a mark of excellence on each step; targeting assignments in **Design Engineering** with a leading organization; preferably OEM/ Tier 1 Supplier in Pune

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Profile Summary

- Result-oriented professional, **over 10 years** of organizational experience in **Design & Development, Manufacturing CAD Engineering, Project Management & Client Relationship Management**
- Skilled in implementing **Mechanical Design, Manufacturing Processes and Automotive Design Engineering** involving development and preparation of detailed **drawings;** conceptualizing and effecting process initiatives to enhance efficiency & productivity
- Keen interest lies in **Design, Analysis and PLM tools such as CATIA V5, UG NX, Windchill, VPM, Teamcenter, Ansys, Geomagic Design X**
- Proficiency in **Aerospace Industry** as a Harness Design Engineer for 3 years
- Expertise in managing complete **engineering operations** involving requirement analysis, finalization of specifications & designing in compliance to quality standards with excellence in design management, engineering change management, issues control & resolution, cost management
- Leveraged skills in **mapping customer basic requirements and expectations** for new design and improved designs; expertise in evaluating engineering designs and implementing engineering changes as required
- **Skills in coordinating the day-to-day functions** as per department's Standard Operating Procedures and supervising achievement of SLA targets on a daily basis
- Service-focused, dedicated professional with profound **administration skills** in ensuring that **operations run smoothly** so that employees can perform at **optimum level**
- **Keen strategist & implementer** with a strong business acumen; skilled in setting strategic goals, making decisions, building & analyzing business plans with **key focus on ROI**
- **Expertise in managing operations** having KPIs, SLA (Service Level Agreement), Volumes Management, Team Utilization, Quality & Training, CSAT (Customer Satisfaction), RCAs (Root Cause Analysis)
- A forward thinking person with **strong communication, analytical & organizational skills**; well organized with a track record that demonstrates self-motivation & creativity to achieve corporate & personal goals

Core Competencies

Design Engineering, Validation & Review, New Product Development

Project Management/ Budgeting

3D Modelling, CAD Modelling

Vendor Management

Performance Tracking/ CAE

Stress Analysis/ Continual Improvement

Testing & Quality Assurance

SLA Monitoring

Client Relationship Management

Team Building & Leadership

Education

B.E. (Mechanical) from SSGMCE, Shegaon, Maharashtra, India in 2010

Skills

Designing Tools: CATIA V5, UG NX 9/11
PLM Software: Windchill, VPM, Teamcenter
Reverse Engineering: Geomagic Design X, Space Claim
Analysis Software: Ansys 2019 R1/R2
Engineering Change: Drawing, GD&T and 2D stack-up

Professional Experience

Since Feb'11 with TCS; presently designated as Lead Design Engineer {Pune (Customer-ZF Group)}

Key Result Area

- Managing end-to-end **Mechanical Design Engineering activities** of which includes studying the design briefs, detailing of designs in accordance with the defined design principles & manuals
- **Spearheading a team of Engineers for design and modeling** of structures. **Studying & implanting changes** for all running products while considering all risk & impacts

- **Administering activities right from the conceptualization stage to the execution**, involving budgeting, finalization of technical specifications, procurement, scheduling, progress monitoring and manpower planning
- **Translating design model using various quality tools**; worked with clients/ manufacturing facility to implement value engineering initiatives for standardization; verifying **drawings**
- **Facilitating end-to-end new product development process** including requirement analysis, finalizing specifications, design, prototype development, testing & field failure improvement and quality management
- Developing **conceptual designs & part drawings** and setting-up specifications & other data for layout drawings, conducting **Design Analysis and PLM Tools such as CATIA V5, UG NX, Windchill, VPM, Teamcenter, Ansys, Geomagic Design X**; prepared reports for analysis & implementation of design modification and life prediction activities
- **Rolling out new configuration drawings** based on the findings of prototype to optimize design shortcomings and incoming deviations
- **Managing continuous improvement and quality assurance systems** development while ensuring integrity of quality procedures & documentation required to maintain certification and compliance with standards
- **Evaluating possible design solutions** to improve cost, quality and performance; implementing **Value Analysis & Value Engineering initiatives** to achieve standardization & reduce costs by providing suggestions & improvements in design and process
- **Driving compliance to all quality management systems**, reporting non-conformance, identifying the root causes and effectively implementing corrective measures
- **Administering Team for Mechanical Design, Manufacturing Processes and Automotive Design Engineering** to make first prototype; coordinating with customer helps to fine-tune design with minimum iteration

Key Projects

Since Jul'20 as Lead Design Engineer, Pune (Customer-ZF Group)
Software: CATIA V5, CATIA VB Scripts, UG NX 11.0, Windchill 11, Geomagic DesignX, Ansys
- Co-ordinating with customer regarding the daily workload and discuss about the ongoing projects, designing presentations and holding technical reviews with Client, executing using CATIA-V5 and upload it into Windchill PLM
- Detailing Manufacturing Drawings using GD&T & Client Standard, preparing & presenting FEA models from 3D CAD
- Working on the RFQ projects where the task involves from building BOM to release the parts, cads and drawings to preliminary, 2D Stack-up Analysis.
- Reviewing and releasing parts and drawings in Windchill system based on different phases of GDPIM

Jan'16-Jun'20 as Onsite Lead & Senior Design Engineer, USA (Customer-ZF Group)
Software: CATIA V5, CATIA VB Scripts, UG NX 11.0, Windchill 11, Geomagic DesignX, Ansys
- Gathered knowledge of Braking systems to understand all the technical standards in order to execute the design projects which would cover all the guidelines and standards
- Prepared and presented FEA models from 3D CAD; detailed Manufacturing Drawings using GD&T (ASME Y14.5M-2009) and Client Standard Template
- Supported customers on RFQ projects (Request for Quote) by understanding the scope & get it done with the help of offshore team
- Conducted 2D Stack-up Analysis, Engineering BOM, structure and parts creation in Windchill
- Used offshore resources for the scope of macro creations in CATIA V5 and UG NX 11

Oct'14-Dec'15 as Design Engineer, Pune (Customer-ZF Group)
Software: CATIA V5, CATIA VB Scripts, Windchill 11, Agile
- Designed single piston and twin piston calipers & migrated the CAD data from Agile to Windchill; detailed Design execution using CATIA-V5 and upload it into Windchill PLM and Manufacturing Drawings using GD&T and Customer Standard
- Updated the 3D model as per the DFM; prepared and presented FEA models from 3D CAD; 2D Stack-up Analysis

Sep'12-Oct'14 as Harness Design Engineer, Germany (Customer-Airbus)
Software: CATIA V5, CATIA VB Scripts, VPM, Labtrack, Proptool, iMade, PDMlink SSCI
- Designed Harness in the Virtual Aircraft View in Catia V5
- Gathered input study from iMade and Labtrack Schedule Item as mentioned in Handover; maintained quality by using the macros developed for Full3D design activity
- Created the following:
    - 3D Data set in CATIA for each single Design Solution which contains 3D Annotations (928 DS enrichment) in order to define the fasteners, bonding, treatment code, Labels and Notes of the Harness Installation
    - CGR´s and the references of the primary structure like frames, stringer for the 3D environment
    - ECN Views to describe all changes between two Issues
    - 3Dxml file To extract the Bill of material (BOM) file
    - Drawing Set in PDM Link

May'11-Sep'12 as Design Engineer, Bangalore (Customer-Airbus)

Software: CATIA V5, CATIA VB Scripts

- Executed 2D drawing from 924 3D parts using CATIA-V5 referring to the Airbus process and method documents. Created 2D drawings using CATIA V5
- Managed all technical details relevant for the 3D model assigned will be detailed in line with Airbus standards
- Generated Bill of Materials which will be extracted and documented from the 2D drawing created

Personal Details

Date of Birth: 7th July 1988

Languages known: English Hindi, Marathi

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