

AMBAREESHA S

SENIOR DESIGN ENGINEER, TECHNOVA INDUSTRIES BANGALORE



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EXECUTIVE SUMMARY

- Self-motivated, enthusiastic design Engineer with 22 years of experience in modeling, detailing and assembly of Aircraft structures, Industrial components and Injection molding tool design using CAD Software Catia V5. Good knowledge of geometric tolerances and dimensional system applications.
- Part of the injection molding tool design team for automotive plastic components for 8 years.
- About 5 years of experience in designing and modeling of sheet metal parts like machine enclosures, connector terminals, aerospace sheet metal. Proficient in completing Engineering Projects and controlling them in terms of time, cost and quality.
- Well versed in manufacturing and production sector due to more than 5 years of work experience. Demonstrated ability to keep in touch with cutting edge technology besides building customer relationships and producing successful proposals. Goal-oriented with excellent team building and interpersonal skills.
- About 14 years of experience in 3D modeling and drafting using CAD software Catia V5.

PROFESSIONAL SKILLS

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|-------------------------------|----------------------------|---------------------------------|
| ✧ Machining process knowledge | ✧ Project Management | ✧ Deadline Management |
| ✧ Injection Mold Tool Design | ✧ Documentation | ✧ Cultural adaptation |
| ✧ Multitasking Ability | ✧ Aircraft Structures | ✧ Identify problems and resolve |
| ✧ Hardworking | ✧ Critical Thinking Skills | ✧ NPD management |

PROFESSIONAL EXPERIENCE

Senior design engineer | Technova Industries | Aug 2014 - present

- Designing of tooling for plastic injection mould products for a wide range of industries and applications including Automotive, Electricals, Electronics, Telecommunications.
- Designed insert mould tools for automotive parts like connectors, plug cap assembly, insulators and bulb holders and case moldings for Minda group.
- Preparation of bill of materials of the tool components
- Risk analysis and design review and verification
- PFMEA analysis and review
- Part of team for the design of progressive press tools for different types of connector terminals for insert mold of automotive components.
- Preparation of manufacturing drawings of tool elements using Catia V5 and Auto cad
- Designing of electrodes for EDM process.
- DFM of tool design for customer approval.
- Project time line management and status updation with the customer
- APQP document management, Technical documentation in accordance with the IATF standards.
- Preparation of documents for technical reviews.
- Following up of manufacturing process with supplier
- Helping machinists to understand the drawings
- Engineering change management for internal and customer requirements.
- Gained knowledge on engineering plastic materials which are used in Injection molding process.

Design engineer | Hosur coir foams Pvt Limited | Aug 2009 - Aug 2014

- Responsible for designing, fabricating, modifying mattress making machine units like Fiber feeding machine, Feed opener unit, Sheet forming machine and Tunnel dryer.
- Instrumental in the project on machine design by using CAD software Catia V5 modules like generative sheet metal, part design, surface design, drafting and assembly design.
- Perform the duty as a Core team member
- Handled the preparation of part list and bill of materials.
- Proficient in Self-Quality checking
- Coordinated the task of drafting efficiently.

Design engineer | HCL technologies | April 2007 - March 2009

- Design and modeling of aircraft structures which including cockpit, fuselage, wings, aft components.
- Responsible for modeling the part, according to the aircraft location using Catia V5 modules like Aerospace sheet metal, Generative sheet metal, Part Design, Drafting and Assembly design workbenches.
- Instrumental in fulfilling the objective of the project, i.e. to create 3D-parametric solid Models, assembly and associated drafting of Frame 2 assembly parts such as longerons, bulkhead assembly, stringers etc.
- Material assigning to the modeled part based on their position and usage and calculation of part weight
- Efficiently handled the knowledge of Team Center (PLM)
- Executed the Self-Quality check of the part before uploading in the PLM
- Performed the duty as a Core team member of application domain
- Maintained and updated the knowledge of Aircraft Terminologies
- Coordinated the task of drafting efficiently
- Developed expertise in applying the knowledge of the materials used for the respective components modeled
- Acknowledged for good understanding of Mechanical Design, Manufacturing Concepts, Structural Design, weight calculations for the components modeled, GD and T
- Instrumental in the project on structural design by converting all the designs in the form of 2D and 3D

Cad engineer | Sanziv technologies | Sep 2005 - March 2007

- Responsible for displaying and explaining the designs in formalized presentations
- Efficiently managed the tasks of creating designs for products and machineries by using cad software UG NX
- Handled the tasks of revising plans as per the instructions of the Design Drafting Manager
- Conducted the tasks of generating and formatting drawing sets for permitting and installation
- Assigned the tasks of implementing standards set for all drawings in the Design Drafting Department

Production supervisor | Techno precision products | Feb. 2002–Mar. 2005

- Efficiently managed production task supervision
- Handled the quality inspections of machined parts

Production supervisor | Reliable Industries | Feb. 2000– Jan. 2002

- Production Supervision – milling, grinding and drilling Operations.

EDUCATION

- Bachelor degree in Mechanical Engineering, Univ. B.D.T college of Engg., Kuvempu University