

ANANT BHAGAT



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Design Engineer

Product Design and Development

Industry Preference: Automobile / OEM'S / Mechanical Industries

Profile Summary

- A professional with **9 years and 5 months** of experience in **Design, New Product Development**.
- Skilled in heading end to end new product development including requirement analysis, finalizing specifications, design, prototype development, testing, production support, failure mode design analysis, vendor management and quality management.
- Experience in designing of parts like Fuse Relay boxes, Connectors, Terminals, Sheet metal parts in Automotive wiring harness as well as experienced in wiring harness design.
- Experience of designing Wireless IO link, IO hub, Programmable Adapters, Fiber and copper data connectors, DCX Racks & Cabinet, Data center products in Industrial connectivity domain.

Knowledge Purview

- Designed & developed Modular hardwired Fuse/Relay box (Modules for different fuse and relays, Bus bars & frames) for LEONI & Designed PCB based Power Distribution Module for BMW 35 UP.
- Concept designing, Customer approval for design freeze.
- 3D printing parts for DFA., Internal expert design review & implementation.
- Stress Strain simulation, DFMEA, DFM, DVP testing, handling manual.

Career Path

Since 12th May '20: BELDEN (Incedo Inc)

Senior Design Engineer - R&D Product Engineering

Key Result Areas: (Industrial Connectivity: M12 connectors, Data connectors, IO Links, IO hubs, DCX Racks & Cabinets)

- Leading projects across all stages of product development cycles.
- Conducting in-depth analyses of new RFQs, creating checklists, and conceptualizing designs with BOM preparation.
- Implementing Value Analysis & Engineering initiatives for standardization and cost reduction; driving engineering changes through change management and timely releases of products.
- Supporting Root Cause Analysis for product quality issues, actively participating in process design and control documentation using DFM/DFMEA/DFA/ECN methodologies .
- Evaluating design solutions to enhance cost, quality, and performance, collaborating with cross-functional teams and suppliers.
- Concept designing in Solidedge, solidworks, engaging in design reviews with international teams like Germany, Canada, DFMEA
- Leading projects focused on cost reduction and Value Analysis/Value Engineering (VAVE), particularly for products like IO Hub and Wireless IO Link.

- Successfully contributing to the development of new products, including Copper & Fiber patch cords and M12 connectors etc
- Expertise in solving problems and make design recommendations.
- Good working experience with Europe, Canada design & manufacturing teams.

Since July '17 to May '20: LEONI Wiring Systems Pune Pvt Ltd

Design Engineer - R&D

Key Result Areas: (Fuse box design & development, Terminal & busbar design)

- Costing with child parts, comparing the cost with different registered materials, VAVE to lower down cost then quoting product to customer for winning business.
- Played key responsibilities in the Benchmarking of Fuse Boxes and HV Components.
- Concept designing in NX Unigraphics as per BIW or package dimension provided.
- OEM clearance on concept design (CAD) with frequent meetings & regular feedback update.
- Wire size selection as per current flow & as per application.
- Bus-bar design as per current values provided.
- Wiring harness routing and packaging using CATIA V5 EI2 tool. Performed Component selections, 3D packaging & Harness Routing for High Voltage PDU in Catia V5.
- Doing Poka-Yoke of design where ever necessary.
- Designed parts (CAD) thoroughly checked as per LEONI design guidelines (Germany).
- Design improvements, feedbacks implementation from LEONI Germany team.
- Get it done thermal, stress/strain & vibration simulation from LEONI Germany.
- Simulated weak area improvement in design.
- Shuffling of fuses & relays when temp increases high than requirement to control temp rise.
- VAVE w.r.t competitor Fuse box by product break down & making the report current vs new in form of Design improvements, Material selection, Increase in functionalities, Packaging space, Weight reduction, Aesthetic, Serviceability, selling cost.
- Preparation of 2D drawings (Manufacturing) for tooling.
- Tolerance stacks up analysis.
- Carrying out DFA process.
- Preparation of DFMEA document.
- Things gone wrong on Proto sample implemented in design for B sample stage.
- DVP test plan preparation, test material arrangement and dispatching to respective Lab.
- DVP reports preparation of soft & hard tool tests for getting green report.
- Dimensional reports checking.
- Design Intention sheet preparation.
- Wiring Harness Electrical CAD integration & Component packaging in Catia V5.
- 4 Month stay in Kitzingen, Germany for concept design & design review of respective projects.
- Visit to Trencin (Slovakia) to understand LEONI's production process.
- Visit to Arad (Romania) for understanding LEONI's Fuse and Relay Box and PDM manufacturing process.

July '14 to July '17: Yazaki India Pvt Ltd.

Graduate Engineer trainee (GET) - R&D, and promoted from GET to Assistant Manager

Key Result Areas:

- Wiring Harness Electrical CAD integration & Component packaging in Catia V5.
- Design of Waterproof and Non waterproof connectors.
- Time Plan preparation to meet Project Deadlines.

- Conducted Design and Development of IPDM (Intelligent Power distribution module) with considerable focus on Component selection, Packaging on PCB and Housing design
- Handled duties related to Market Research, Competitor's analysis and Potential Business Area
- Study of customer inputs like packaging/vehicle surrounding data.
- Concept Design of Connectors (using Solidworks).
- Design studies of components for design validation.
- Stress/Strain Simulation of connectors using Solidworks Simulation.
- Tolerance stack-up analysis of connectors.
- Preparation of 3D packaging data for components.
- Preparation Manufacturing Drawings, Reference Drawings, Quotation Drawings etc.
- Resolving component design related issues observed at internal & customer production lines.
- Component database management (i.e. drawings, specifications, test reports etc.)
- Interaction with customer for technical clarifications.
- Interaction with Japanese Engineers on daily basis for project activities.

Achievement

2013-2014 - Participated in National Event BAJA 2013-14.

2017-2018 – Significant performer of the year (Fuse box optimization).

Qualification

2014 B.E. (Mechanical) from U.C.O.E.R (Pune University) with Distinction

Qualification	University / College	Marks (%)	Passing Year
B.E (Mechanical Engineering)	Universal college of engineering and research, Pune	74.40%	2014
H.S.C	S.S.P.M.S College, Pune	75.33%	2010
S.S.C	R.M. School, Pune	81.69%	2008

Professional Skills

- Well versed with Siemens NX 10.0, Solid Edge 2019, Solidworks 2022 (Part design, assembly, wiring harness routing, FEA simulation).
- CATIA V5 R25 (Part Design, Assembly & Electrical Workbench i.e harness routing & Packaging)
- Microsoft-Office, Power BI Basics.

Personal Details

Date of Birth: 18th September 1992
 Address: Address - B-1103, Venketesh Imperia, Near Balaji temple, S.No - 14/4, Punawale, pin code- 411033
 Mobile No: 7972040223
 Languages Known: English, Hindi, Marathi.
 Sex: Male
 Nationality: Indian
 Notice Period: Immediate Joiner