






MD FURQAN NAFIS ANSARI

Mechanical Design Engineer

My Contact

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Education Background

- **B.Tech in Mechanical Engineering**
Durgapur Institute of Advanced Technology & Management - Affiliated to MAKAUT
2015–2019 (8.52 DGPA)
- **Senior Secondary**
SHMS Inter Mahavidlaya - Affiliated to JAC
2012–2014 (61.60 %)

Software

- SIEMENS UG NX.
- SOLIDWORKS.
- AUTOCAD.
- MS OFFICE.

Soft Skills

- Strong organizational and time management skills.
- Exceptional communication and interpersonal skills.
- Ability to work independently and as part of a team.
- Detail-oriented and able to handle multiple tasks simultaneously.

About Me

Motivated Design and Manufacturing Engineer with 5.5 years of automotive design experience. Specializes in high-quality CAD design to enhance manufacturing efficiency and reduce costs, with expertise in material properties, welding, and screwing processes. Proficient in designing jigs, fixtures, grippers, SPMs, and various gauges. Experienced in plant layouts, robotic installations, process planning, Material selection and manufacturing process, electrical and pneumatic components, on-site client commissioning, vendor management and ECM. Strong communicator and problem-solver for design, manufacturing, and on-site challenges. Seeking a challenging engineering role to apply my skills in precise and efficient project management.

Professional Experience

EBZ SysTec India Pvt. Ltd. | Engineer

2022 – Present

Key responsibilities:

- Demonstrated exceptional results in welding fixtures, grippers & SPMs.
- Coordinated with customers and vendors to ensure successful project execution.
- Proficient in 3D design, concept development, optimization, finishing, 2D detailing, BOM generation.
- Expertise in GD&T and quality control of technical drawings.
- Utilized UG-NX for hands-on experience in designing industrial parts and machines.
- Skilled in designing SPMs for specific work requirements.
- Experienced in Electric Vehicle Battery Pack Assembly Design and assembly line processes.
- Contributed to major projects for automotive OEMs, including closures, side body components, battery assembly & Engine housing.
- Provided technical guidance and solutions to optimize designs, reducing time, cost, and resources while enhancing quality, accuracy, and neatness.
- Conducted various payload calculations for Robot End Effectors, Clamp Cylinder calculations and Motor load.
- Conducted in-depth analysis with customers, design teams, and simulation teams for Engineering Change Management (ECM), ensuring comprehensive evaluation and integration of changes.
- Co-ordinated with the IT team to interlinking between design technology with IT platforms.
- Known for being people-friendly, collaborative, adaptable, and approachable with excellent interpersonal, analytical, and problem-solving skills.

Hard Skills

- 3D Concept / Modeling.
- 2D Detailing / Drawing.
- GD&T.
- BOM, SLE.
- Creating and maintaining technical documentation.
- BIW Fixture & SPM Design.
- Battery Pack Assembly line design.
- Onsite client commissioning.
- Vendor Management.
- Team Management & Team Player.
- Manufacturing, tolerance & assembly processes.
- Robotic cell installation, Programming & Wiring.
- Engineering Change Management & Data Management.
- Conventional Machining and Non-Conventional Machining.
- Electrical, PLC & Wiring.
- Pneumatic & Piping .
- Quality & CMM.

Languages

- English
- Hindi

Interests

- To learn new things
- Playing Football
- Watching movies and series

Kalinga Autotech | Design Engineer

June 2019 – December 2021

Key responsibilities:

- Design the concept in 3D and ensure its quality.
- Lead the design of jigs, fixtures, grippers, SPMs and different types of gauges to meet specific manufacturing requirements.
- Review the design with the customer for approval.
- Collaborate with clients during commissioning.
- Finalize the design in 3D concept, 2D detailing and BOM generation release it for the manufacturing team, and oversee its production.
- Co-ordinate with other departments, such as QA, ,manufacturing, and others, to ensure smooth operations.
- Modify design for Engineering Change Management (ECM) with minimal changes.
- Supervise daily manufacturing operations.
- Deals with vendors for manufacturing activities.
- Participated in the assembly and installation of manufacturing equipment on-site, to the production line runs efficiently.
- Work closely with the quality team, including CMM, to maintain tools within tolerances with minimal adjustments.
- Supported the PLC programming team with wiring and system integration tasks.
- Assist in pneumatic piping and wiring.
- Assist in MIG Welding Robot Wiring & Programming.
- Ensure timely delivery of the manufactured tool to the customer.

Projects Undertaken

- MB closures for MB-EAM V530 Assembly Project at Kecskemet plant.
- Prototype spot welding and clinching line for MB PVV_V530.
- MB closures for MB-EAM V540 Assembly Project at China plant.
- MB Prototype spot welding line for the engine housing, designed for C449_BF.
- MB closures for MB-EAM W520 Assembly Project at Kecskemet plant.
- MB AMG Outer and Inner Side body project Z2.
- MB Battery pack line for Daimler at Sindelfingen plant.
- MB closures for C174,X174 Assembly Project at MMA Rastatt plant.
- MB closures for X540 Assembly Project at Bremen plant.
- X540 KV line for MBRDI.
- MB closures for X244/W244 Assembly Project at MMA Rastatt plant.
- AANN/AAGM model chassis for Hero moto corp India.
- Shoe welding SPM of Victora Auto Pvt. Ltd. India.
- Buffing SPM of Victora Auto Pvt. Ltd. India.
- Rotary Paint Table of Bridgestone India Automotive Pvt. Ltd. India.
- Spot Welding fixture for air bag at Stanzen Engg. Pvt. Ltd. India.
- Robotic cell of KR Rubberite.
- Checking gauge for Hero Motors pvt. Ltd. India.
- Thread Checking SPM by Sensor at Nemrana steel Pvt. Ltd. India
- Part presence SPM using a camera system after welding for Hero moto corp India.
- Pick and Place SPM for BMR Equipment India Pvt. Ltd.