

BLR_RD_NEW_MECHANICAL_ASSEMBLY_DESIGNER_DFM_ENGINEER

Ihre Aufgaben

DFM - Mechanical Assembly Designer & DFM Engineer

The Mechanical Assembly Designer & Design for Manufacturing (DFM) Engineer is responsible for designing mechanical assemblies with a strong emphasis on manufacturability, cost efficiency, reliability, and scalability. The role bridges mechanical product development, manufacturing engineering, and industrialization – ensuring that designs are optimized for production processes, assembly workflows, tooling, tolerances, material selection, and quality standards.

The position leads global ME assembly design and fixture design teams across all UX R&D locations (~20 headcount). It directly impacts OEE by aligning product assembly features with production process requirements, improving First Pass Yield, and driving significant cost reductions in both unplanned scrap

Role Overview

A mechanical assembly designer is responsible for designing mechanical parts and assemblies to ensure proper fit, function, and performance of the product.

Key Responsibilities

- Create 3D models and 2D drawings for parts and assemblies using CAD tools (Creo, SolidWorks, CATIA, NX)
- Design mechanical assemblies considering fit, form, and function
- Define assembly sequences, interfaces, and mating conditions
- Prepare BOMs, engineering drawings, and specifications
- Perform tolerance stack ups and basic design validations
- Collaborate with analysis, testing, and manufacturing teams
- Support prototype build and design revisions

Required Skills & Qualifications

- Bachelor's degree in Mechanical Engineering
- Strong knowledge of mechanical design principles
- Hands on experience with CAD modeling
- Understanding of GD&T
- Basic awareness of manufacturing processes

Primary Focus

- Product functionality, fit, and assembly integrity
- DFM Engineer (Design for Manufacturability) - Job Description
- Role Overview
- A DFM Engineer ensures that product designs can be manufactured efficiently, cost effectively, and at scale without compromising quality.



Job ID
REF9128V

Standort
Bengaluru

Leadership Level
Leading Self

Rechtliche Einheit
AUMOVIO India Private Limited

- Key Responsibilities
- Review designs for manufacturability and production feasibility
- Optimize designs for machining, molding, casting, sheet metal, or additive manufacturing
- Recommend design changes to reduce cost, complexity, and cycle time
- Define realistic tolerances suitable for mass production
- Lead DFM/DFA reviews with cross functional teams
- Work closely with suppliers and factory teams
- Support transition from prototype to volume production

Required Skills & Qualifications

- Bachelor's degree in Mechanical / Manufacturing Engineering
- Strong knowledge of manufacturing processes
- Experience with DFM, DFA, PFMEA
- Cost reduction and process optimization skills
- Understanding of quality and production constraints

Primary Focus

Ease of manufacturing, cost, quality, and scalability

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Education

- Mechanical Engineering degree with a strong understanding of precision assembly processes and detailed knowledge of the product life cycle (PLC) in automotive electronics / displays
- Professional Experience
- More than 3 years in product engineering, industrial engineering, or process engineering
- Project Experience
- At least one successful product design taken through to manufacturing
- Leadership Experience
- More than 2 years in ME project management or a component management role
- International Experience
- Experience working in international teams and supporting global production sites
- Electrical Hardware Development, PCB Design, or Embedded Hardware Engineering.
- Proven experience in project planning, WBS creation, cost/effort estimation, and engineering project tracking.
- Hands-on experience in EE simulation (pre- and post-layout), high-speed design, and signal/power integrity analysis.
- Experience with DFMEA creation, updates, and risk mitigation methodologies.
- Strong background in component qualification, manufacturing technology development, and prototype build support.
- Prior exposure to engineering release management (material release notes, release plans, documentation).
- Experience working cross functionally with mechanical, software,

quality, manufacturing, and product management teams.

Technical Skills

- Proficiency in PCB CAD tools (e.g., Altium Designer, Cadence Allegro, Mentor Graphics).
- Knowledge of EE simulation tools (e.g., HyperLynx, LTspice, PSpice, Ansys SIwave).
- Strong understanding of EMC/EMI, high speed design, SI/PI, impedance control, and PCB stack up.
- Experience with environmental & climatic robustness requirements.
- Understanding of safety characteristics (SCs), DFMEA, CQM, and reliability engineering.
- Familiarity with manufacturing processes, prototype builds, and equipment validation (RE1/RE2).
- Ability to create clear technical requirement specifications and evaluation packages.
- Knowledge of industry standards (IEC, ISO, IPC standards like IPC 2221/2222/6012).

Project & Process Skills

- Strong capability to create and manage project schedules, WBS, and engineering project plans.
- Skilled in opportunity & risk identification, assessment, and mitigation planning.
- Experience preparing procurement decisions, equipment requests, and proof of concept documentation.
- Proficient in Product Lifecycle Management (PLM) tools and release processes.
- Ability to conduct structured design reviews and engineering release reviews.
- Experience with requirements elicitation and stakeholder analysis.

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- Product Assembly – assembly processes, design principles, and component integration
- Technical Drawing Review & Tolerance Calculation – GD&T, stack-up analysis
- FEM Simulation & Process Simulation – structural and process analysis tools
- CAD Design & Tools – 3D modelling, drafting, and design software
- Process Engineering – understanding of manufacturing and assembly processes
- Action Implementation Tracking – structured follow-up and delivery management
- Tolerance Calculations – dimensional chain analysis and precision engineering

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

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Since its spin-off in September 2025 AUMOVIO continues the business of

the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.