

Vinay Prakash Namburi

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SUMMARY

As a Product Development and Design Engineer with nearly 3 years of professional experience, I have a strong focus on innovation and performance optimization. My expertise includes utilizing CFD and FEA techniques to enhance product efficiency and ensure compliance. I have a proven track record of delivering manufacturable designs across automotive, aerospace, and medical industries while maintaining strong client relationships and consistently achieving project milestones. My deep interest in emerging technologies drives my commitment to continuous improvement and impactful design solutions.

WORK EXPERIENCE

Mechanical Design Engineer, Diabatix NV Leuven, Belgium • May 2022 — Present

- **Streamlined project planning:** Conducted thorough reviews of client proposals and technical specifications to identify critical requirements, pinpoint risks, and accelerate project timelines by up to 20%.
- **Enhanced product sustainability:** Integrated sustainable engineering practices into product design, enhancing performance, resulting in a 20% improvement in efficiency across the product lifecycle and promoting long-term sustainability
- **Optimized product design:** Utilized CFD and FEA analysis to optimize product performance, ensure design compliance, and enhance product functionality by at least 10%.
- **Ensured manufacturability:** Applied DFM and DFA principles to ensure designs were 100% fully manufacturable using various techniques like CNC machining, 3D printing, sheet metal fabrication, and die-casting across industries such as automotive, aerospace, power electronics, Machine building.
- **Delivered exceptional results:** Managed projects to deliver high-quality outcomes with a 95% on-time completion rate, maintaining clear and consistent communication with clients to prompt issue resolution, leading to strong, sustained client relationships.

R&D Design and Development engineer, B Braun Ag Germany • September 2021 — March 2022

- Developed new product designs for pharmaceutical drug mixing, ensuring compliance with 100% safety industry standards
- Engineered hazardous drug mixing tools, including dry breaks, spike port adapters, and infusion line accessories, aligning with FDA regulations and resulting in a 100% approval rate for all designs submitted.
- Designed systems for safe handling of both powdered, liquid drugs, improving product safety and ease of use by 20%.
- 3D printing and Conducted testing for prototypes, optimizing product functionality and reducing design iterations by 15% through early-stage validation and performance assessment.

Work student, TH Rosenheim Germany • March 2021 — July 2021

- Designed a handling system prototype that improved the efficiency of loading and unloading boxes in logistics operations by 25%.
- Managed project timelines, detailed design feasibility analysis to ensure technical viability, completing project 15% before schedule
- Calculated and optimized a Bill of Materials (BOM) for the prototype, reducing material costs by 10%, and prepared comprehensive reports outlining design, testing, and cost analysis.

SKILLS

- 3D CAD - SOLIDWORKS, PTC Creo, Siemens NX, Autodesk Inventor, Catia V5
- Drawing and GD&T
- CFD and FEA analysis
- MS Office
- Project Management

EDUCATION

- Master – Mechanical and Plastic engineering, Aalen University, Germany
- Bachelor – Mechanical Engineering, JNT University, India

CERTIFICATION

- SAP ERP HANA
- Lean Six Sigma Yellow Belt
- Generative Design for Manufacturing

LANGUAGES

- English - Fluent
- German - B1