RAVI TEJA BOLLINENI

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🏠 37 Comet Street, Cardiff, CF24 0JB, Wales, UK

PROFESSIONAL SUMMARY

Design-focused Mechanical Engineering postgraduate with 3+ years of hands-on experience in CAD modelling, product optimization, and usability-driven design. Skilled in SolidWorks, CATIA V5, MATLAB, and 3D printing technologies. Currently pursuing research in topology optimization for 3D-printed structures. Passionate about medical device innovation and improving user experiences through design excellence..

CORE TECHNICAL SKILLS

- Structural Design Software: AutoCAD, CATIA V5, SolidWorks, MATLAB
- Analysis Tools: Finite Element Analysis (FEA), Topology Optimization
- Design Tools: REVIT (basic), Microsoft Office Suite (Excel, Word, Outlook)
- Calculation Tools: TEDDS (familiar), Tekla (familiar)
- Engineering Techniques: DFA, PFMEA, Technical Documentation, Quality Systems
- Soft Skills: Team Collaboration, Written Communication, Adaptability, Self-Motivation

EDUCATION

MSc Advanced Mechanical Engineering
Cardiff University, UK — Sep 2023 – Sep 2025
Dissertation: "Topology Optimization for 3D Structures"
Modules include FEA, AI in Engineering, Risk & Hazard Management, Control Systems

BTech in Mechanical Engineering
JNTU Kakinada, India — 2016 – 2020
Key Areas: CAD/CAM, Structural Design, Additive Manufacturing, Thermodynamics

PROFESSIONAL EXPERIENCE

Graduate Design Engineer
Ashok Leyland, Chennai, India — Jun 2020 – Jul 2023
- Designed and optimized structural components for heavy vehicles using CATIA V5
- Produced calculation-backed models and 2D drawings compliant with safety standards
- Reduced material usage by 12% through bracket optimization project
- Participated in PFMEA and quality system implementation

Customer Service Team Member
Greggs, Cardiff, UK — Nov 2024 – Present
- Maintained operational standards and ensured compliance with hygiene regulations
- Developed teamwork, multitasking, and communication skills

CERTIFICATIONS

- AutoCAD – Autodesk (2021)
- CATIA V5 – Dassault Systems (2021)
- SolidWorks – Dassault Systems (2022)
- Food Safety & Allergy – UK Training (2024)
- IIRS Program – Indian Institute of Remote Sensing (2020)

ADDITIONAL SKILLS & INTERESTS

SKILLS:- Creative Ideation & Sketching | Analytical & Research-Oriented | Strong Verbal & Visual Communication | User-Centered Design Focus | Self-Motivated | Proactive, and Detail-Oriented

INTERESTS:- Medical Innovation • Human-Centered Design • Hiking • Volunteering • Sketching • Product Development