

Neeraj G. Salunkhe

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Career Profile

A highly experienced MSc Automotive Engineering Graduate with relevant technical project expertise in product designing and analysis. Demonstrating design skills and use of modelling software, including Solidworks, Ansys, Catia, Hypermesh, and AutoCAD, collaborating with others to communicate project aims and progress issues, and creating detailed reports; currently seeking a **Mechanical Design Engineer** role where expertise in design and modelling can add significant value to the appropriate use of Automotives

Professional Skills

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|-------------------|-------------------------------|---|
| • Solidworks | • Matlab/ Simulink | • Product Design |
| • AutoCAD | • Gantt Chart | • Project Planning, Control, and Management |
| • Star CCM+ | • Production Techniques | • Microsoft Word |
| • Ansys Workbench | • Finite Element Analysis | • Microsoft PowerPoint |
| • CATIA | • Engineering Design Analysis | • Microsoft Outlook |
| • HyperWorks | • Research and Development | |

Education

Coventry University, UK **Sept 2022 – Sept 2023**
Accredited by the Institution of Mechanical Engineers (IMechE), Chartered Management Institute (CMI)

MSc Automotive Engineering (Distinction)

Key Modules: Ground Vehicle Aerodynamics, Ground Vehicle Dynamics, Advance Propulsion System, Design Principle and Practice, Engineering Simulation and Analysis, Connected Autonomous Vehicles Contextualisation

St. John College of Engineering & Management, India **Jul 2016 - Sept 2020**
Accredited by NAAC A+ & NBA

Mechanical Engineering (Undergraduate) (6.30 CGPA)

- Member of SAE
- Engaged in the FMAE Baja event
- Cleared virtual Baja organised by Mahindra

Key Modules: Automobile Engineering, Internal Combustion Engines, Strength of Materials, Project Management, Engineering Mechanics, Engineering Drawing, Production Process, Material Technology, Kinematics of Machinery, Internal Combustion Engines, Machine Design, Finite Element Analysis, CAD CAM CAE, Production Planning & Control, Power Engineering, Design of Mechanical Systems

Professional Experiences

Aspire Industries, India **Jan 2021 - Jul 2022**
Mechanical Design Engineer

- Designed sheet metal structures for optimal efficiency using **Advance Solidworks**
- Co-ordinated over 250 projects, demonstrating exceptional organisational skills and a proven track record of successful project management
- Applied engineering principles and **GD & T** to enhance structural integrity and performance by reducing **material and welding wastage by 10%**
- Served as **Designated Production Manager** for a 20-day tenure, overseeing seamless communication with clients, coordinating with the design team, and managing vendor relations to ensure delivery without disruption to production processes
- Designed products for **Reliance Jio** (5G 42" Rack Cabinet), **Idea, Warpp** (Welding Machine Body), **Raychem, Cadbury, Beardo**, etc

- Gained comprehensive knowledge of CNC Turret Punching and CNC Bending to incorporate practical tolerances into the designs
- Integrated efficient sheet metal designs with CNC machining processes
- Co-ordinated the start-end production process, i.e. Designing, Punching, Bending, Welding, Louvring, Hydraulic Pressing and Quality Check over 100 projects

Skanem Interlabels Pvt. Ltd., India

Jun 2019 - Mar 2020

Intern

- Gained practical knowledge and skills in the field of project management
- Acquired comprehensive knowledge about Label Applicator Machines & Labelling Machines
- Completed the final-year Bachelor's project, focusing on **waste reduction strategies** and fostering knowledge acquisition

Soft Skills Experience

Welcome Break, UK

Nov 2023 - Present

Team Member

- Ensured accurate and timely delivery of chicken orders by packing and managing orders, adhering to KFC standards
- Managed the burger station, demonstrating expertise in burger preparation and assembly
- Collaborated with team members to streamline operations, meet customer demands, and foster a positive work environment

Sainsbury's, UK

Oct 2022 - Apr 2023

Trading Assistant

- Communicating with Customers and Attempting to Meet Their Demands While Providing Excellent Service
- Segregate the products and arrange the fresh products in the right aisles

Work Experience

Coventry University, UK (Postgraduate Project)

May 2023 - Aug 2023

Student

- Project Title: "FEA modelling of the aluminium alloy graphene-based composite plate for the launch vehicle external fuel tank structural application"
- Conducted comprehensive static analysis of aerospace components, including a 500x500x25 mm plate, Liquid Oxygen (LOX) tank, Intertank, Liquid Hydrogen (LH2) tank, and External Fuel Tank (EFT)
- Implemented FEA to evaluate total deformation, equivalent stress, and equivalent elastic strain in aerospace structures
- Findings from a deformation study conducted on components of the launch vehicle highlighting minor distortions in elements but raising concerns over fatigue and structural integrity issues, emphasising the need for continuous inquiry and assessment to ensure safety and reliability

St. John College of Engineering & Management (Undergraduate Project)

Jun 2019 - Mar 2020

Project Intern in Skanem Interlabels Pvt. Ltd.

- Project Title: "Lean Manufacturing Implementation in Machining & Labelling Industry using Value Stream Mapping"
- Implemented SAP System to enhance communication and reduce lead times in the Machining department, addressing issues of wrinkles and air entrapment
- Proposed double-sided label printing in the Labelling department to combat delays caused by incomplete orders and static electricity, improving production
- Achieved efficiency gains of 37.077% in the Machining department and 25.389% in the Labelling department, meeting established goals

Certification

Enjos for Engineers (Certified by Government of India Startup)

Mar 2020 - Dec 2020

- Catia
- Advance Solidworks
- AutoCAD
- Ansys