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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**

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

**Education**

**Coventry University, UK Sept 2022 – Sept 2023**

**Accredited by the Institution of Mechanical Engineers (IMechE), Charted 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” (Designed on **Solidworks**)
* 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