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**Open to Relocate & start immediately.*

PERSONAL PROFILE.

Dedicated Project Engineer with a Master's degree in Advanced Mechanical Engineering from the University of Leicester and 4 years of industry experience. Skilled in design, project management, and process improvement, committed to driving environmental and cost-efficient initiatives. Proficient in renewable energy systems and enthusiastic about contributing to a more sustainable future.

Key Skills.

Design Skills-

- CAD Modelling.
- Catia, Auto CAD & Solidworks.
- Report analysis.
- CAD simulations.
- Ansys CFD.
- PV Sol.

Project Management Skills-

- Budget Management/ Finance.
- Project planning.
- Process improvement.
- Risk management.
- Team management.
- Strategic thinking.

General Skills-

- Connecting dots.
- Effective work ethics.
- Data management.
- Microsoft office (Excel)

Work Experience.

19th June 2023 – 14th November **Technical Sales Advisor, Viridian Solar. Cambridge, UK.**

- Customer Relationship Management - Dealing with B2B & B2C segment of business. Single house owner, group deal from Builders and Installers for Solar projects.
- Customer Interaction - Managing customer interactions across various channels. Build and maintain strong, relationships with customers, with the ultimate aim of improving customer satisfaction, loyalty, and retention.
- Analytics/ Customer Segmentation - Using data analytics to gain insights into customer behaviour and preferences. Categorizing customers into groups based on common characteristics to tailor design and communication efforts.
- Design - Solar Panel system Auto CAD according to Part L Regulations.
- Problem solving - Solving issues. SAP calculations. Design support. Site plan and schedule.
- Schedule – Developing schedule document which was used to define project structure and project requirements.
- Creating Bill of Material for project requirements.
- Developing Site plan for group deal customers.
- Preparing quotations and technical communications.
- SAP energy calculations. Govt - Part L Regulations.
- Sales Force used for customer relationship management & and stakeholder management.

12th September 2022- 06th April 2023, Design/Project Engineer, **Green Energy Together, Ware, UK.**

Delivering end-to-end support and process improvement throughout the project lifecycle.

Design & Analysis-

- Design & analysis of Solar system & Battery system.
- Design for annual consumption. Design for various applications.
- Design and selection of Inverters, Optimizers, batteries, EV chargers.
- Analysis of the system. Creating feasibility report. Creating Analysis reports
- Mathematical calculations, Excel, SAP tool & PV-Sol used.
- Design for heavy shading & optimizing the system.

Quotations-

- Creating cost estimations, and proposals to offer customers with the best value for money.
- Development of project proposals, cost estimation, and timelines, and managing budget.
- Creating precise Return on Investment (ROI) for the customer.
- Helping sales team to solve tricky issues. Helping other teams to solve issues regarding installation, feasibility, and system.

Procurement-

- Creating a procurement list for instalments.
- BOM and system update and keeping track of warehouse stock.
- Creating Schedule & Pick Pack document for the installation team.
- Time management, Industry is very Fast and finishing everything properly on time.
- Client support, technical support, technical sales support.
- Installation Planning and supply chain management.

29th November 2021 – 09th September 2022, Engineering & Technical Design, **Wescom Defence, Derby, UK.**

Product Development & New Product Introduction-

NPI- Vehicle launch grenades Screening & Multi Range VLG, Multi-spectral VLG (Smoke).

- Design- Design of Products & Parts required for products.
- Drafting parts/assemblies for buy-in products. Design of buster assemblies for propulsion of grenades and VLG. Design of systematic blast and combustion chain.
- Tools- Design of Tools for various processes like Swage, Pressing, cutting & roll over.
- Gauges- Design of gauges for measuring and fast production.
- MOP- Design of method of packing for products as per safety standards and MOD standards.
- Testing- Testing of designed products, tools, gauges and method of packs.
- Designing products as per NATO standards.
- Applying knowledge of Mathematical analysis, Tolerance analysis (GD&T), Electrical & Electronics, Physics, Chemistry, Fluid Dynamics to solve issues.

Change Management-

- Creating change orders, taking actions like test, design VAVE projects.
- My goal was to help senior engineers reduce manufacturing costs while maintaining product quality standards (VAVE).
- DFMA Design for Manufacture and Assembly, FMEA Failure mode and effects analysis.
- Creating 'Process instructions' for manufacturing of the Products.
- Project- Mini Tank. ERP, PDM, PLM.

Teamwork & Planning-

- Upgrading BOM for Ministry of Defence.
- Team player with experience in leading team on the assembly line to reduce risk and build explosive products safely.
- Planning & ensuring every process is on time.

10th June 2018-12th December 2019 **Project head, A2 innovative research and training. Pune, India.**

- CAD Modelling- Solidworks/ Catia V5 used; CAD Simulations - Ansys.
- Projects- Structural analysis, Dynamic analysis, Modal analysis, Fluid Static & Fluid Dynamic.
- Improving the design, performance and efficiency of existing products.
- Sheet Metal modelling using Solidworks.
- Projects regarding simulations of Thermal Modelling, Fluid modelling, FEA.
- ANSYS (CFD) analysis. This included stress distribution, aerodynamics tests, turbulence, temperature variance and creating report and their explanations.
- GD&T, Mathematical Calculations & Validation of projects.

Education/ Qualifications.

Master of science (MSc) in Advanced mechanical Engineering, University of Leicester, United Kingdom. (Merit- 2:1)

Bachelor of Engineering in Mechanical Engineering, Pune University, Pune, India Achieved - First class with distinction. (Degree)

Diploma in Mechanical Engineering, Maharashtra State Board of Technical Education, Pune, India. Achieved-First Class.

Courses.

1. Agile Project Management (Practitioner).
2. Prince 2 (Practitioner).

Technical activities.

- Engines, 4-cylinder inline engine, V8 engine - Basic mathematical calculations, analysis and CAD design.
- Gearbox - Basic mathematical calculations, analysis and CAD design.
- Minor experience & knowledge in field of Electrical, Electronics, Renewable Energy (Solar Energy & hydropower), Hydraulics, Pneumatics, and Power Generation.
- Worked in the Society of Automotive Engineers Supra team (College project) designing and fabrication of a formula car. (Catia used)
- MATLAB & SIMULINK project on the controller. PID controller system.
- Small Hydraulic Projects- determining Water-level, Buoyancy force, Centre of Buoyancy and other parameters of floating bodies.

Certifications.

- HVAC.
- Probability & Stochastic Processes.
- New Business Markets in the Internet of Things.
- Engineering Mechanics. Mechatronics: For PLC based Automation and SCADA.
- Raspberry Pi Workshop. (Follow link for more Certificates - <https://bit.ly/m-naik>)