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PERSONAL PROFILE:

MSc Engineering Management graduate with a Bachelor's in Mechanical Engineering, equipped with a strong foundation in engineering and systems management. Experienced in process optimization, quality enhancement, and the application of lean and digital manufacturing principles. Skilled in using CAE tools, additive manufacturing, and ISO-compliant quality systems to support innovation and continuous improvement. Eager to contribute to process improvement, design, or operations projects across diverse industries.

SKILLS:

Software Proficiency : - Microsoft Office 365 - Fusion360 - SolidWorks - AutoCAD - Tally ERP 9
Technical Skills : - Lean Principle - QFD & FTA - 3D Printing - DFM
Project & Soft Skills : - Agile Methodology - Leadership - Resilience - Conflict Resolution

EDUCATION:

2022 – 2024 University of Leicester, Leicester. (Graduated on Jan 18, 2024)

Masters in Engineering Management (Merit)

Modules: System Engineering, Lean Manufacturing, Project Management, Engineering Business Management and Cost Engineering.

2017 – 2021 Anna University, KPR Institute of Engineering and Technology, India.

Bachelors in Mechanical Engineering (First Class)

Modules: Computer Aided machine drawing, Process Planning & Cost Estimation, Hydraulics & Pneumatics, Thermal Engineering, FEA, Fluid Mechanics, Welding Technology & Strength of Materials.

PROFESSIONAL EXPERIENCE:

June 2021 – July 2022 KPM Fab, India. (Project Engineer – Apprenticeship Role)

- Led improvement projects involving supplier coordination, procurement planning, and budgeting for machinery upgrades.
- Assessed risks across production (fabric handling, storage, transport) including spooling delays, moisture damage, and GSM-based demand shifts; implemented seasonal contingency plans.
- Conducted quality inspections and used Tally ERP 9 for production analysis, workflow optimisation, process efficiency and Collaborated with suppliers & contractors to ensure timely delivery.

May 2019 – July 2019 Euregaa Motors, India. (Internship)

- Performed inspections and servicing of diesel generators from Mahindra Powerol, Kirloskar, and Cummins, gaining direct experience in maintenance and troubleshooting.
- Worked in on-site generator repairs and machinery operations, enhancing technical skills in power systems and mechanical servicing.

December 2018 – December 2018 South India Motors, India. (Internship)

- Gained hands-on experience in vehicle diagnostics, engine performance analysis, and preventive maintenance.
- Assisted in servicing 6–8 vehicles daily, applying fault detection techniques to ensure reliable and efficient operation.

OTHER EXPERIENCE:

November 2022 – Present Royal Mail Midlands Super Hub, Daventry. (Full Time Worker)

- Working in Parcel Handling and robotic operations within a high-volume logistics environment.

ACHIEVEMENTS: Secured 3rd place in UKSEDS IOSM National Competition 2024 – 2025.(05 June 2025)

PROJECTS:

November 2024 – June 2025 UKSEDS In Orbit Servicing and Manufacturing Competition 2025.

- Designed an innovative solution for space debris removal, satellite refuelling, and in-orbit servicing to promote a sustainable space environment.
- Designed system architecture and CONOPS to define mission goals and operations; used Fusion 360 to prototype concepts for debris repurposing and space-based manufacturing.

October 2024 – Present	Integrated additive manufacturing techniques in self-directed projects:
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- **Custom Utility Knife:** Designed and 3D printed a durable, ergonomic utility knife for everyday use.
- **Viking Horn Holder:** Engineered a customized display stand using PLA for a decorative Viking horn.
- **Insulin-Pen Case:** Fabricated a protective, portable case for Allstar insulin pen, focusing on portability.

**August 2023 An Investigation of Change Management Strategies used by Electric Vehicle manufacturers
in China and India. (Master's Dissertation)**

- Conducted an in-depth comparative study on how Chinese and Indian EV manufacturers implement change management to address challenges in electric vehicle adoption, policy compliance, & technology integration.
 - Identified key strategies such as 360-Degree Manufacturing Strategy, Green Manufacturing and lightweight battery integration for sustainability.
 - Identified barriers including material dependency, infrastructure gaps, low adoption, & global competition.

December 2022 Requirement Specification for Water Distribution Network and design for Firefighting in a Large Ship. (Master's Course Work)

- Designed a water distribution and fire protection system for a large marine structure. Used QFD and FTA to identify system requirements and improve failure prediction accuracy by 22.2%.
 - Designed system architecture for fire safety in a complex environment; applied FTA and QFD to improve system reliability comparable to safety-critical systems in transport engineering.
 - Designed detailed Gantt chart to visualize project timelines, milestones, and communication.

**2019 – 2021 Camellia Sinensis/Ananas Comosus Fiber Based Corrugated Panel for Sound Damping.
(Bachelor's Final Year Project)**

- Designed and fabricated a natural fiber-based corrugated acoustic panel for high-frequency applications, involving prototype development, material testing, and hands-on fabrication processes.
 - Fabricated the panel with Industrial Tea leaf waste (camellia sinensis 25wt%), Pineapple fibre (ananas comosus 5wt%) and E-Glass fibre 10wt% bonded with epoxy resin 60wt% in a sinusoidal corrugated sandwich panel. Observed Noise Reduction Co-efficient on panel is 0.64.

CERTIFICATION:

March 2025	Lead Auditor in ISO 9001 / Quality Management System Auditor	(Accredited)
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- Proficient in conducting internal and external audits, ensuring compliance with quality management standards, and leading teams to enhance organizational quality.

January 2025 Obtained Full UK Driving License.

WORKSHOP & TRAININGS:

February 2020 Welding Automation for Modern Manufacturing Sectors – Indian Welding Society

- Completed a certified workshop gaining hands-on exposure to robotic welding systems, automation integration, and modern process control technologies.