

Vidur Varshan Manoharan

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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 • Fusion 360 • SolidWorks • AutoCAD • Tally ERP 9

Tech & Eng Skills : • Preventive & Corrective Maintenance • Troubleshooting • Lean Principles & Six Sigma
• ISO Cleanroom Awareness • Technical Documentation • Validation • DFM • 3D Printing
• HSE / OSHA Compliance • Equipment Installation • Process Optimization • RCA (5 Whys)

Project & Soft Skills : • Agile Methodology • Leadership • Conflict Resolution • Resilience

EDUCATION:

2022 – 2024 Masters in Engineering Management University of Leicester, Leicester (Merit)
Modules: System Engineering, Lean Manufacturing, Project Management, Engineering Business Management and Cost Engineering.

2017 – 2021 Bachelors in Mechanical Engineering Anna University, India (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:

Nov 2022 – Present Royal Mail Midlands Super Hub, Daventry. (Operator Supervisor)

- Operate and maintain material handling equipment (PPTs, robotic sorters, conveyors), troubleshoot faults, and support corrective actions to ensure smooth parcel flow.
- Supervise loading/unloading and act as Bay Marshal during peak operations, coordinating with logistics teams to optimize workflow and uphold safety standards.
- Conduct quality inspections, deliver safety briefings, and contribute to continuous improvement initiatives aligned with operational KPIs and regulatory compliance.

Mar 2020 – Jul 2022 KPM Fab, India. (Project Engineer)

- Managed procurement, supplier coordination, and budgeting for machinery upgrades, leading key process improvement initiatives.
- Performed quality inspections and production analysis using Tally ERP 9, optimizing workflow and mitigating risks across fabric handling and logistics.

May 2019 – Jul 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.

Nov 2018 – Nov 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, using fault detection techniques to improve reliability, efficiency, and turnaround time in a fast-paced garage environment.

ACHIEVEMENTS:

- 05 Jun 2025** **Secured 3rd place in UKSEDS IOSM National Competition 2024 – 2025**
- 31 Aug 2019** **Secured 3rd place in Intercollege Industrial Sketching Competition by Mechanical Engineering Association (India)**

PROJECTS:

- Nov 2024 – Jun 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.
- Oct 2024 – Present** **Integrated additive manufacturing techniques in self-directed projects:**
- **Custom Utility Knife:** Designed and 3D printed a durable, ergonomic utility knife for warehouse 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.
- Aug 2023** **An Investigation of Change Management Strategies used by Electric Vehicle manufacturers in China and India. (Master's Dissertation)**
- Conducted a comparative study on how Chinese and Indian EV manufacturers manage change to address adoption barriers, policy compliance, and tech integration.
 - Identified key strategies including 360° Manufacturing, Green Manufacturing, and lightweight battery tech.
 - Highlighted challenges such as material dependency, infrastructure gaps, and global competition.
- Dec 2022** **Requirement Specification for Water Distribution Network and design for Firefighting in a Large Ship. (Master's Course Work)**
- Designed a comprehensive water distribution and fire protection system for a marine structure using QFD and FTA, improving failure prediction accuracy by 22.2%.
 - Developed system architecture and a detailed Gantt chart to ensure reliability and project clarity in a safety-critical environment.
- 2019 – 2021** **Camellia Sinensis/Ananas Comosus Fiber Based Corrugated Panel for Sound Damping. (Bachelor's Final Year Project)**
- Designed and fabricated a sinusoidal corrugated acoustic panel using industrial tea leaf (25 wt%), pineapple fiber (5 wt%), E-glass fiber (10 wt%), and epoxy resin (60 wt%).
 - Conducted material testing and observed a Noise Reduction Coefficient of 0.64, demonstrating its suitability for high-frequency sound damping.

CERTIFICATION:

- Mar 2025** **Lead Auditor in ISO 9001 / Quality Management System Auditor (Accredited)**
- Proficient in conducting internal and external audits, ensuring compliance with quality management standards, and leading teams to enhance organizational quality.
- Jan 2025** **Obtained Full UK Driving License.**

WORKSHOP & TRAININGS:

- Feb 2020** **Welding Automation for Modern Manufacturing Sectors – Indian Welding Society**
- Attended a certified workshop showcasing robotic welding systems, automation integration, and modern manufacturing technologies. Gained exposure to industrial robotics, automated welding techniques, and process control demonstrations through technical sessions and interactive activities.