

# TUSHAR SONI

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## SENIOR MANUFACTURING ENGINEER | EXPERTISE IN OPERATIONAL EXCELLENCE, QUALITY CONTROL & TPM

Dynamic and result-oriented Senior Engineer/Manager in the manufacturing sector, recognized for driving operational excellence, quality control, and inventory management. Extensive expertise in preventive maintenance, TPM (Total Productive Maintenance), and shift operations, resulting in enhanced equipment uptime and reliability. Achieved a 20% reduction in manufacturing defects by implementing rigorous quality control measures per ISO 14001:2015 standards and boosted productivity through strategic operational improvements. Proven success in optimizing mechanical spares and raw materials inventory, delivering a 25% reduction in carrying costs and a 15% improvement in overall productivity. Strong leadership skills demonstrated by managing maintenance teams and ensuring the effective performance of critical plant machinery, including optimizing conveyor systems, cold saws, and automated packing equipment. Proficient in ERP, SAP, SOLIDWORKS, ANSYS, CATIA, with experience in MTBF, MTTR, spare management, and equipment optimization. Dedicated to continuous improvement and maximizing operational efficiency in fast-paced manufacturing environments.

### PROFESSIONAL VALUE

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|--------------------------------------|------------------------------|---|
| • Operational Excellence             | • MTBF, MTTR                 | SOLIDWORKS, ANSYS, CATIA                    |
| • Quality Control (ISO 14001:2015)   | • Preventive Maintenance     | • Computer Skills: MS Office                |
| • Inventory Management               | • Shift Operations           | • Language Skills: English (CEFR Level: B2) |
| • Leadership                         | • Equipment Optimization     | • Spare Management                          |
| • Technical Proficiency              | • ERP, SAP                   | • Process Optimization                      |
| • TPM (Total Productive Maintenance) | • Design and Modeling Tools: | • Root Cause Analysis                       |

### CAREER PROGRESSION

#### Viraj Profiles Ltd, Palghar, Maharashtra, India | Senior Engineer

April 2024 – Present

- **Oversaw shift operations**, securing **95% operational efficiency** by effectively synchronizing maintenance activities with production schedules, reducing downtime.
- **Eliminated bottlenecks** in the finishing area, enhancing conveyor systems and automated packing equipment, leading to a **15% boost in productivity**.
- **Devised and executed preventive maintenance strategies**, increasing **equipment reliability by 15%** and **minimizing unscheduled downtimes by 10%**, driving overall operational efficiency.
- **Recorded and analyzed maintenance activities**, identifying critical improvement opportunities and **lowering repair costs by 12%** through proactive interventions.
- **Championed Total Productive Maintenance (TPM) programs**, resulting in a **20% improvement in Overall Equipment Effectiveness (OEE)** and fostering a culture of continuous improvement.

#### Synergy Steels Ltd, Rajasthan, India | Engineer

January

2019 – February 2022

- **Implemented and supervised the activation of a 10-ton EOT crane**, driving a substantial increase in manufacturing output and **improving operational efficiency by 25%**.
- **Led quality control initiatives**, cutting manufacturing defects by **18%** and ensuring compliance with stringent industry standards, significantly enhancing product quality.
- **Managed and mentored** a team of 10 professionals, increasing equipment uptime by **20%** through effective leadership and strategic maintenance planning.
- **Streamlined inventory management** for mechanical spares and raw materials, **reducing carrying costs by 25%** and improving the overall efficiency of the production process.

#### Sunfox Technologies, Dehradun, India | Design Intern

March 2018 – May 2018

- Applied theoretical knowledge to real-world challenges in product design, contributing to a **10% improvement in design efficiency**.
- Collaborated with the engineering team to develop practical design solutions.

#### Hero Steels Ltd., Punjab, India | Trainee Engineer

July 2017 – August 2017

- Enhanced mechanical system efficiency through hands-on maintenance initiatives, resulting in a **15% reduction in operational downtime**.
- Demonstrated problem-solving skills by identifying and addressing mechanical system bottlenecks.
- Managed key accounts (CXO clients) by analyzing raw data to identify valuable leads, resulting in successful cross-selling of services and increased profitability.

## **PROJECTS & RESEARCH WORK**

### **Academic Projects**

- **Morphology and Mechanical Properties of Polyacrylonitrile Nanofibers** (January 2023 – January 2024)  
Spearheaded research on **Bi-axial Polyacrylonitrile nanofibers** through the electrospinning method. Conducted morphological and mechanical testing, and developed a numerical model for validation and analysis.
- **Development of Both Wheel Drive Electro-Hybrid Motorbike** (January 2018)  
Led a team to design and develop a **dual-drive hybrid electric motorbike**, optimizing vehicle dynamics and enhancing performance.

### **Research and Publication**

- **Institute of Mechanics and Mechanical Engineering, Riga Technical University, Latvia** (January 2024)  
Co-authored a research paper on the **development and characterization of Biaxial PAN nanofiber mats**, under review by the **Journal of Latvian Physics**.

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## **EDUCATION**

- **Master's in Engineering Science - Mechanical Engineering** (Graduated Jan 2024)  
Riga Technical University, Latvia | GPA: 6.85
- **Bachelor's in Technology - Mechanical Engineering** (Graduated June 2018)  
Graphic Era Hill University, India | GPA: 6.42

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## **CERTIFICATIONS & TRAININGS**

- **Lean Six Sigma White Belt, Council of Six Sigma Certification**

Issued Dec: 2024  
Credential ID: fZn5vj1ZhC

- **SAP ERP Essential Training, LinkedIn Learning**

