

Jaykumar Patel

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EDUCATION

Northeastern University (GPA 3.6)

Boston, MA

Master of Science in Engineering Management

Expected May 2026

Relevant courses: Lean Concepts and Applications; Manufacturing System Design; Digital Product Design Management; Deterministic Operation Research

Pandey Deendayal Energy University (PDEU)

Gandhinagar, India

Bachelor of technology in Mechanical Engineering

May 2023

SKILLS

Tools: - Advanced Excel; SolidWorks; AutoCAD; Siemens NX; Jira; SAP; Minitab; Tableau; Power BI; Qlik Sense
Core Competencies: - DMAIC; Kanban; 6s; Six Sigma; Root Cause Analysis; Kaizen; VSM; Continuous Improvement; Cost Reduction; SPC; SQC; Operational Efficiency; FMEA; GD&T; Workflow Planning; Quality Control

EXPERIENCE

RotorQ Drive System Private Limited

Ahmedabad, India

Assistant Manufacturing Engineer

January 2023 – December 2023

- Correlated Lean principles, streamline workflows, optimize cycle times through takt time analysis in gearbox assembly, resulting in **13% reduction in manufacturing costs** and **17% improvement in production efficiency**
- Leveraged AutoCAD Plant 3D to redesign the production layout, improving material flow and equipment placement, leading to a **12% increase in production throughput** and optimized space utilization
- Applied critical thinking to design Power BI dashboards for monitoring production metrics in real-time, enhancing decision-making capabilities and promoting operational transparency
- Conducted 5S initiatives in the gearbox production line, improving workplace organization, reducing downtime by 15%, and promoting safety through visual management and standardized operating procedures (SOPs)
- Executed root cause analysis techniques (Fishbone, 5 Whys) to address gearbox noise issues, enabling cross-functional teamwork, reducing customer complaints by **27%**, and **cutting rework costs by \$45K annually**

Mehta Excel Private Limited

Kheda, India

Supply Chain and Warehouse Management (Intern)

June 2022 – December 2022

- Coordinated Supported Supplier Performance Manager in driving supply chain improvements, ensuring 100% TQP approval, and enhancing financial performance through strategic supplier relationships and process optimizations
- Formulated advanced VBA Macros to automate procurement reporting, **reducing data processing time by 22%** and speeding up decision-making for procurement strategies and vendor assessments
- Bolstered supplier performance by evaluating key performance indicators (KPIs) such as on-time delivery, quality, and cost, leading to a **8% improvement in vendor relationships** and operational performance
- Streamlined scheduling and inventory management processes by aligning procurement timelines with production needs, reducing lead times by and ensuring seamless supply chain operations
- Utilized Microsoft Office Suite (Outlook, Word, Excel) to optimize meeting coordination, prioritize tasks, and enhance communication, contributing to improved operational efficiency and organized workflows

PROJECTS

Lean Transformation of Assembly Line for Axial Flow Pump Manufacturing

September 2024 – December 2024

- Redesigned assembly line layout using lean principles, reducing production cycle time by 25% and increasing throughput by 15% to enhance operational efficiency
- Implemented root cause analysis (RCA) and poka-yoke (error-proofing) mechanisms, reducing assembly defects by 30% and improving first-pass yield to 95%, while also utilizing 5S and value stream mapping (VSM) to reduce inventory levels by 20%, saving \$50,000 annually

Comparative Analysis of Digital Marketing Effectiveness

February 2024 – April 2024

- Delivered comparative analysis of digital marketing platforms using statistical methods (ANOVA, T-tests) to optimize channel selection and improve ROI across various industries
- Incorporated data visualization techniques to analyze engagement metrics and sales performance, providing actionable insights for strategic decision-making in digital marketing campaigns