Yug Shah

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EDUCATION

Stanford University

San Francisco, CA

Master of Science in Mechanical Engineering; GPA: 3.81/4.0

Sept 2023 - June 2025 (Expected)

Pandit Deendayal Energy University

Gandhinagar, India

Bachelor of Technology in Mechanical Engineering; GPA: 9.67/10.0 (3rd among 200+ students)

Aug. 2018 - June 2022

TECHNICAL SKILLS

Manufacturing Processes: Lean Manufacturing, Six Sigma, 5S, Kaizen, Statistical Process Control (SPC), CNC Machining, Injection Molding

Software and Tools: AutoCAD, SolidWorks, Fusion 360, ANSYS, SAP ERP, MATLAB, Python

Quality Management: FMEA, Root Cause Analysis, Continuous Improvement, ISO 9001:2015, Process Flow Mapping

Data Analysis and Simulation: Minitab, Tableau, Excel (Advanced), Simulation in Manufacturing Systems

EXPERIENCE

Rajhans Plastic Machinery

Ahmedabad, India

Feb 2021 - July 2021

- Junior Manufacturing Engineer
 - Optimized workflows, reducing production costs by 15% and waste by 10%.
 - Assisted senior engineers in maintaining automated machinery, reducing downtime and defects by 12%.
 - Monitored production data to identify process improvements and ensure smooth operations.

Pioneer Engineering Services Manufacturing and Design Engineer

Ahmedabad, India

Aug 2021 - Dec 2023

- Improved operational efficiency by 25% and reduced downtime by 20% through automation integration.
- Led cross-functional teams, increasing throughput by 15% and reducing defects by 20%.
- Reduced lead time from prototype to production by 10% through collaboration with R&D teams.

Star Pops Pty Ltd

Pretoria, South Africa

July 2024 - Sept 2024

- Lean Manufacturing Engineer Intern
 - \bullet Increased productivity by 36% and reduced down time by 25% using lean manufacturing techniques.
 - Cut material waste by 18% and reduced production costs by 20% through process improvements.
 - Collaborated across teams to boost efficiency, contributing to a 12% market share growth.

PROJECTS

Implementation of Lean Manufacturing Principles for Cost Reduction

Jan 2023 - Mar 2023

- Led a cross-functional team to implement Lean Manufacturing principles, including 5S and Kaizen events, achieving a 20% reduction in production costs and a 30% increase in operational efficiency.
- Performed Value Stream Mapping (VSM) to eliminate non-value-added activities, reducing material waste by 15% and cycle times by 10%.

Automation of Quality Control in Manufacturing

Aug 2021 – Dec 2021

- Developed an Automated Optical Inspection (AOI) system using Python and OpenCV, increasing defect detection rates by 20% and reducing manual inspection times by 25%.
- Implemented machine learning algorithms to classify defects with 95% accuracy, integrating the system with existing PLC and MES for real-time monitoring.

Design and Implementation of a Flexible Manufacturing System

Feb 2022 - Apr 2022

- Engineered a Flexible Manufacturing System (FMS) utilizing CNC machining centers and automated material handling, increasing production flexibility by 30%.
- Applied Single-Minute Exchange of Dies (SMED) techniques to reduce changeover times by 20%, enhancing Overall Equipment Effectiveness (OEE).