Jaykumar Lokwani

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PROFESSIONAL SUMMARY

Industrial & Process Improvement Engineer with 5+ years of experience improving manufacturing workflows and setting SPCs for process optimization in chemical & equipment manufacturing. Skilled in leading process improvement projects, lean methodologies, conducting time & motion studies, from concept through implementation.

CORE COMPETENCIES

Six Sigma (LSSGB) | DMAIC, SPC, DOE, RCA | Preventive Maintenance | Line Balancing | Process Documentation | Flow Mapping | Equipment Reliability | Downtime Reduction | NPI | Lean Manufacturing | 5S Implementation | NPI | Value Stream Mapping | Workforce Optimization | Continuous Improvement | Kaizen Events | Gemba Walks | ISO 9001 | Change Management | Minitab | SAP ERP | MS Office Suite | MS Project | Advanced Excel | MS Visio | Power BI | AutoCAD | PLC

PROFESSIONAL EXPERIENCE

Manufacturing Operations Engineer — *Jan 2025 – Present*

OneH2, Inc. – Clover, South Carolina

- Led the new product introduction of next-generation H600 Hydrogen Generator in partnership with design & supply chain, translating design intent into manufacturable processes, work instructions, and assembly practices
- Drive CI initiatives in hydrogen generator system manufacturing, including assembling & fabrication procedures, and QA procedures, reducing rework by 20% and improving first-pass yield
- Improved fabrication workflow efficiency by 15% across tube bending, laser cutting, press brake, and welding operations by analyzing production constraints and optimizing sequencing
- Reduced fabrication scrap by 10% and shortened bracket redesign cycle time by standardizing component configurations across builds, minimizing custom rework and tubing misalignment
- Validated BOM against MRP forecasts ahead of fabrication release to prevent material-driven build schedule delays for high-value ($250K–$1M) product assemblies

Process Engineer — *Jul 2017 – Sep 2021*

Reliance Industries Ltd. – India

- Increased production capacity by 16% through process optimization and DCS control parameter tuning
- Reduced material leakage by 95% by optimizing sealing systems in rotary valves using DOE and time studies
- Performed SPC and process capability studies to reduce quality issues by 20% and improve process capability
- Delivered $250K annual savings through water utility optimization and process flow analysis & modifications
- Reduced unplanned downtime by 15% through asset criticality analysis and preventive maintenance prioritization
- Supported ISO 9001 internal audits and drove cross-functional Continuous process improvement initiatives
- Oversaw full project lifecycle for change management: feasibility studies, scope definition, detailed engineering, procurement, construction, commissioning, and handover

Projects — *2023 – 2024*

University of Texas at Arlington

- **DMAIC Analysis of Rejected Compressor Shaft for Rolls-Royce Aero Engines**: Reduced rejection rate from 50% to 10.32% by conducting root cause analysis using Lean Six Sigma and leveraging Excel-based data visualization to drive targeted process and quality improvements
- **Distribution Operations Proposal for Warehouse**: Designed workflows, labor optimization plans, and transactional pricing models; documented current vs. future state processes to improve operational efficiency

EDUCATION

MS in Industrial/Engineering Management – *University of Texas at Arlington*, ***2024***

BS in Chemical Engineering – *Dharmsinh Desai University*, ***2017***