**Yakshu**

**Manufacturing/Process Engineer**

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# Summary

**Certified Lean Six Sigma Green Belt Professional and Certified FMEA Specialist** with 6 years of professional experience in manufacturing environment and, process development. Actively seeking a challenging position in the field of Continuous Improvement, Manufacturing and Process Engineering. Strong will to attain ASQ Lean Six Black Certification.

**Education**

* Michigan Technological University | MS: Mechanical Engineering | GPA: 3.65/4-May 2021
* Uttar Pradesh Technical University| Bachelors: Mechanical Engineering | GPA: 4/4-June 2018

# Skills

**Core Competencies:** Process Stream Mapping| 5S | JIT |Kaizen| Kanban| Facilities Layout & Design| Capacity Planning| Capability Analysis (Cp & Cpk) | 8D| Process Flow| Injection Molding |QMS ISO 9001:2015 |GD&T| Audit| 2D/3D Drawings| BOM|CAPA

**Platforms/ Tools:** Advanced Excel | AutoCAD| Minitab | JMP| Tableau | MS Visio| MS Access | MS Office| MS Project

# Training

|  |  |  |
| --- | --- | --- |
| * Six Sigma Foundations
 | * Quality Management System ISO 9001:2015
 | * APQP for New Product Development and Introduction
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| * Master Tableau in Data Science
 | * Data Analytics with Power BI
 | * Supply Chain Logistics
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**Relevant Work Experience**

**Process Engineer, USAA, TCS (6 Sigma Project Development) September 2021- Present**

* Responsible for implementing DMAIC and Lean Six Sigma concepts in optimizing established processes. Responsible for risk identification and mitigation. Conducted work force management, scheduling, project planning to meet compliance.
* Apply advance knowledge of Lean Six Sigma to identify risks / impacts / opportunities in Process Management documentation and Process Improvement projects
* Perform Process mapping using iGrafx and documentation of other processes related artifacts such as SIPOC and improvement opportunities
* Develop high quality process documentation like process maps using iGrafx and perform Data Analysis to identify root causes
* Analyze processes to identify areas of improvement and provide appropriate analytic to facilitate effort prioritization. Conduct statistical analysis
* Documented As-Is process (SIPOC and Process Maps) using iGrafx to identify risks and process
* improvement opportunities.
* Optimized 27 (SOP) standard operating procedures for 9 products, involving 135 processes to identify
* and mitigate risks affecting compliance.
* Reduced missed work by 14% by conducting capacity planning and work force distribution.

**CF Industries, Woodward, Oklahoma (Remote)**

**Manufacturing Engineer Feb 2020 to Sep 2021**

* Supported the Upgrade Plant with day-to-day process engineering needs and activities, e.g. troubleshooting, data analysis, technical support, etc.
* Initiated, designed, executed and managed various capital and non-capital projects to improve safety, efficiency, mechanical integrity reliability and operability of the process equipment.
* Calculations, establish process variable limits, manage the allowable release quantities of various gases, etc.
* Actively participated in turnaround activities, e.g. daily schedule planning and execution, equipment inspection and validation, help maintained uniformity by confirming the correct parts are dismantled, worked on and replaced, provide daily instructions to employed contractors and in house employees, logged daily findings and activities into turnaround report, etc.
* Developed material flow, analyze and plan work force utilization, space requirements, and workflow and

designs layout of equipment and workspace for maximum efficiency

* Actively participated in all Upgrade long and short gauze activities, e.g. determine feasible project schedule,
* Participated in corporate wide Best Practice Meetings to communicate and implement various Best Practice Initiatives throughout the whole organization.
* Led, participated and provided technical support in various incident investigations / Root Cause Analysis
* Monitored an open-heart surgery to create a dashboard and to reduce avoidable blood transfusion by identifying new KPIs for process improvement
* Conducted time study for the use of blood-gas-test-analyzer. Reduced time by 127 secs by changing layout

of the blood-gas-test. Developed internal KPI for RBC counts per 1000 patients, resulting 12% quality

improvement

**K P Industries, India: Manufacturing Engineer July 2017 -Jun 2019**

* Responsible for implementing industrial engineering concepts to optimize workflow, development and introduction of new products, reduce cycle time, conducting time study, procurement of tools, gauges and engineering equipment for foundry and machine shop by cost negotiation and keen financial analysis.
* Developed interactive Tableau dashboard to track status of quality defects (**KP**I) across the plant
* Performed **Data analysis** on inventory data for availability, supply chain, transportation, procurement of the material
* Developed month end production report outlining detailed description of orders by each product group and financial outputs using **ERP systems and Excel** data formation.
* Enforced JIT by using Kanban system and 5S, FIFO initiatives to reduce facility inventory by 53%, saving $20,000 annually
* Improved worker’s ergonomics & safety by **30%** by reconfiguring rack design & standardizing the operating procedures (SOP)
* Increased man-hour productivity by cross-training associates on all machines; improved manpower utilization by **25%** and achieved labor cost reduction of **$30,000 annually**
* Performed **data analysis** to present key performance indicators (KPI) metrics for suppliers’ performance
* Managed the process development documentation (PFMEA, Process Flow, Control Plan and POKA-YOKE designs)
* Reduced on-hand **inventory by 30%** by Inventory Management and space optimization using **ABC** classification
* Reduced **40%** defects for brackets manufacturing by utilizing **Statistical Process Control (SPC)** to identify the source of process variation by using control charts, Cause and Effect Diagram, Root Cause Analysis (RCA), Pareto Charts
* Developed a **Value Stream Map** to identify key opportunities for **continuous improvement** by collaborating with cross- functional teams from Engineering, Operations, and Procurement and reduced **takt time** by **15%**
* Performed **quality inspections** to ensure the quality and compliance of manufacturing processes to the Standard Procedures
* Involved in APQP, PPAPs, supplier audits, capacity analysis, maintaining quality standards: ISO 9001,
* machine maintenance, 8-D corrective reports, FMEA, DOE, CAPA, OEE, issuing purchase orders (POs),
* Gauge R&amp;R, sheet metal forming, die setting experience.
* Streamlined production flow by reviewing blueprints and part number thus monitoring inventory using
* ERP(SAP)
* Created RFQs for the vendor to manage OEM based on comparison matrix, compliance rating, lead
* time management and on-time delivery

**SKILLS USED:** Equipment Operating Instructions (SOP), Data Analysis, OE tools, Tableau, 5wHY (Y), A3, Documentation

DMAIC, Supplier Management, SAP-ERP, Material Resource Planning (MRP)

# Engineering Project Experience

## Data analysis, Data Visualization and forecasting using Tableau: [Tableau Profile](https://public.tableau.com/profile/yakshu7313%23%21/vizhome/Superstoredataanalysisandforecasting/ContinuousLineCharts)

* Created Worldwide COVID-19 Dashboard and Storytelling using Tableau. **Skills used:** Union, Join, Blending, LOD, Table Calculations, Calculated Field, Parametric Filters
* Exploratory Data Analysis of Superstore Dataset**. Skills used:** Advance Tableau & Tableau Prep Builder

## Continuous process and safety improvement of Car manufacturing process using lean principles:

* Prepared as-is map by collecting data from the manufacturing process and identified continuous improvement opportunities
* Performed time studies & improved process lead time by 25% using Visual Aids, 5s, Kaizen, and line balancing, poka yoke
* Identified OSHA’s health hazard violations and reported possible strategies recommended by OSHA to control them

## Facility Layout and Material Flow Optimization:

* Redesigned the layout of the pick locations in warehouse using **AUTOCAD** while ensuring maximum safety; improved operational efficiency by 40%
* Performed data analysis using Tableau to optimize the warehouse slotting process; increased warehouse productivity by 35% & reduced lead time by 35%