Aditya Parsana

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OBJECTIVE:

Looking for a full-time position to enhance career in the Manufacturing Engineering and Quality Engineering. Knowledgeable in current regulations for quality systems and medical devices (21 CFR 820, ISO 13485, ISO 8537) and risk management (ISO 14971). Ensuring compliance of procedures, policies, GMP, standards, and regulations to deliver highest quality product that exceeds customer expectations. and forward-thinking environment with experience in improving the quality and process of the product by using Technical Skills, for instance, Lean Manufacturing, Modeling and Simulation, Continuous Improvement, 8S, ISO 9001, Project Management, Root Cause Analysis (RCA), Quality Management, Management System, Quality Improvement, Value Stream Mapping, Six Sigma, Failure Modes, and Effects Analysis, PFMEA, Risk Management, Process Auditing, Quality Assurance, Process Auditing and Quality Improvement.

EDUCATION

Stevens Institute of Technology, New Jersey   GPA: 3.55   **December 2022**
Master of Science in Mechanical Engineering (Provost's Masters Fellowship)
Relevant Coursework:- Simulation and Modeling, Engineering Analysis, Design for Production system, Design to Additive Manufacturing, Design For Manufacturability, Advanced Additive Manufacturing, Good Manufacturing Practice Pharmaceutical Facilities Design, Introduction to Pharmaceutical Manufacturing, Lean Six Sigma, OSD in Pharmaceutical Industry.

Gujarat Technological University, India   GPA: 8.0/10   **May 2020**
Bachelor of Technology in Mechanical Engineering

SKILLS:

Certificate: Product Optimization with FEA & CFD.
Analytical Software: Minitab, Arena Simulation, MATLAB.
MS Office: Word, Excel, PowerPoint, Outlook.
CAD Software: AutoCAD, SolidWorks, CREO, Mesh mixer, Recap Pro.
Core Competencies: Technical Expertise, Decision Making, Teamwork, Leadership, Strong organizational skill.
Technical Skills: Lean Manufacturing, Six Sigma Green Belt, Kaizen, Failure Mode and Effect Analysis (FEMA)
Continuous Improvement, DMAIC, Just-in-time, Root Cause Analysis, Process Capability Analysis, DFMEA.

EXPERIENCE:

SEVA ENGINEERING SERVICE LLC, NEW JERSEY   **June 2022 - Present**
Project Engineer
- Design full HVAC for customers by following strict design criteria for temperature, humidity, room pressurization, HEPA filtration, dust collection, air change rates and exhaust.
- Engaged with a senior project team to design HVAC system along with estimate cost analysis of whole system and try to make project more efficient approximately 50% compared to existing system.
- Identified Root Cause analysis of defects occurs in existing designs and provides engineering solutions on the basis of the result that can improve efficiency.

AMUL INDUSTRIES PVT.LTD., RAJKOT, INDIA.   **Jan 2020 – February 2021**
Manufacturing Engineer
- Engaged in structured, monitoring, and control of all tools and processes required to prepare high-performance materials into ready-for-module assembly elements.
- Diagnose and reduce 50% motion waste by using spaghetti diagram on the production floor and identify value added along with non-value-added activity by using the Yamazumi chart to reduce cost of the production process.
- Identified root cause of defects (Failure mode) of connecting rod (Product) by using fish-bone diagram and **5 why** analysis.
- Maintained and Developed Process FMEAs **(PFMEA)** and perform Failure Analysis **(FA)** as per requirements.
- Commenced continuous improvement projects aimed at yield, cycle time, and/or through out of the area and accomplishment of Engineering Change Notice **(ECN)**, **PCCB**, and Material Review Board **(MRB)** processes for the area.
- Periodically review and maintain all manufacturing processes and equipment performance by data analysis.
- Spearheaded and performed out of control action plans to maintain stable process inputs and outputs by using statistical process control **(SPC),** and process capability **(Cpk).**

SAHKAR INDUSTRIES, GUJARAT, INDIA   **June 2016 – March 2018**
Process Engineer
- Operated and maintained injection molding machines, ensuring consistent production of high-quality parts.
- Conducted mold changes, setup, and troubleshooting to minimize downtime and improve overall efficiency.

- Monitored and adjusted process parameters, such as temperature, pressure, and cycle times, to optimize product quality and consistency.
- Collaborated with the engineering team to develop new injection molds and provided input on design for manufacturability.
- Implemented lean manufacturing principles, resulting in a 37% reduction in material waste and 60% improvement in production efficiency.
- Led a team of 7 operators, providing guidance and training to ensure safe and efficient operations.
- Participated in root cause analysis to identify and address issues related to part defects and production delays.
- Maintained thorough records of production data, including SPC charts and process documentation.
- Assisted in quality control inspections and ensured that products met or exceeded customer specifications.

ACADEMIC PROJECT:

Lean Manufacturing - Value Stream Mapping (Stevens Institute of Technology- NJ)
- Increased Organizational Production efficiency by 80% and minimized handling time by developing a new plant layout.
- Streamlined production flow by establishing a material requirement planning system.
- 68% reduction in travel time for assembly parts to reach the assembly line (By analysis Wasted Time, Effort, and Motion).
- Designed, Fabricated and Implemented engineering solution to improve efficiency by 50% on key metrics in Safety, Quality, Delivery, and Cost.