KUNDAN RAJESH RATHI (MSIE | BSME | CLSSGB)

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Industrial Engineer | Process Manufacturing Engineer | Quality Engineer

SUMMARY:

- Industrial Engineer with Six Sigma Green Belt certification with two years of manufacturing experience in process development and quality control
- Excellent use of Lean Manufacturing tools such as Value Stream Mapping, 5S, VOC, SIPOC and SMED for process improvement and process mapping using Visio.
- Worked on the time and motion study analysis, good knowledge of MODAPTS as well.
- Well educated with Toyota Production System and Kanban during Lean Manufacturing
- Expertise to develop concept design using 2D and 3D designing tools through hands on industrial experience.
- Experience of using Geometrical Dimensioning & Tolerance (GD&T) in industry
- Excellent Problem-solving and Decision-making skills

COMPUTER PROFICIENCY:

Design: Autodesk Inventor | CREO | CATIA V5 R21| AutoCAD | ANSYS | SolidWorks
Data analysis: Minitab (GR&R) | JMP | Power BI |Tableau | My SQL
Simulation: Arena |MS Visio
Management Tools: MS Excel| VLOOKUP| MACROS | Microsoft Project Planner | ERP (AS400) | Team Center

PROFESSIONAL EXPERIENCE:

Zimmer Biomet (Warsaw, IN) – *Manufacturing Engineer-I*   Nov 2020- Present
- Review and disposition product Non-Conformance Reports (NCR) within the department for issues on the production floor relating to the product documentation, product design and quality standards
- Ensure End of Line manufacturing Bill of Materials (BOMs) and Routing operations are sequenced and referenced correctly per ERP system (AS400)
- Supporting CAPA for DMR and DHF updates to avoid non-compliance
- Worked in a cross functional team & drove activity that improved shop floor integration & collected critical inputs (Inspection criteria, Manufacturing/Measuring equipment's being used) by interacting with operators & line supervisors.
- Documents processes and procedures, including SOPs and work instructions, compliant with an FDA & ISO regulated environment in a cleanly-maintained work area (cleanroom class 8 environment)
- Reviewed existing validation reports and identified gaps between procedure and practice for GMP compliance
- Monitored and drove corrective action and continuous improvement that directly impact performance measures

ProPetro Services, Inc. (Midland, TX) - *Research and Development Intern*   May-August 2019
- Enhanced the efficiency of tool removal required for fracturing operations by 14% using fishbone diagram & 5why analysis
- Executed process kaizen to reduce 20 mins downtime in lubricant control of the grease box during hydraulic fracturing
- Analyzed & predicted failure points on hydraulic fracturing pumps using Power BI and developed solutions for the failures
- Undertook the fluid auditing for the warranty replacement and conducted cost analysis resulting savings of $1.5million
- Modelled Caterpillar 3512C engine in AutoCAD with detailed animations of its functionalities, assembly, and disassembly
- Redesigned the facility layout for the fluid ends to be used efficiently for maintenance and auditing purpose in the yard
- Organized warehouse applying by ABC analysis saving 3 labor hours/day in inventory picking using time and motion study

Ekdant Moulders & Engg. Pvt. Ltd. (Aurangabad, India) – *Process Engineer (GET)*   June 2017-June 2018
- Recorded $17500 savings by scrap reduction in manufacturing plastic bottles using DMAIC
- Increased production capacity by 18% by implementing PDCA in the purging process of a plastic injection molding machine
- Managed the logs of the resins, colorants and regrind materials to be used to produce the components
- Estimated manufacturing cost, process time frame and built BOM by liaising with vendors & inventory control team
- Assisted in determining the supplier's capabilities and reduced excess inventory by 15% in warehouse implementing JIT
- Identified bottleneck in product line using Value Stream Mapping & reduced the cycle time of molding process by 3.6 mins
- Initiated Gemba walks on the manufacturing floor and build the mutual trust with workers by solving their problems

ESSAR Steels India Limited (Pune, India) – *Manufacturing Engineering Intern*   June-Aug 2016
- Implemented 5S methodology to improve workplace safety & categorized equipment for machine maintenance.
- Proactively identifying breakdown area & taking steps to rectify the equipment through application for troubleshooting tools. Evaluated downtime and developed CAPA's for the stoppages by organizing the production reports.
- Improved Overall Equipment Efficiency (OEE) by 13 % using root cause analysis and 5-Why strategies

ACADEMIC PROJECTS:

Manufacturing Facility Layout Design for Plastic Industries
- Remodeled facility layout with the help of various layout methods and Autodesk Inventor, meeting all the constraints
- Improved the design arrangement of machines within plant facilities to ensure most efficient and productive layout

Strategic life cycle analysis of a new product (Aqua Butler): Project Management
- Concept mapping, voice of the customer, scheduling with task list, developed CPM, Gantt chart and PERT using MS-Project
- Conducted economic analysis by calculating the NPV, IRR and PBP concepts of Project Management.
- Identified risks along with their handling strategies using FMEA technique and provided key quality metrics

EDUCATION:

MS, Industrial Engineering, Texas Tech University, TX	GPA: 3.91/4.00	May 2020
BS, Mechanical Engineering, University of Pune, India	GPA: 3.33/4.00	May 2017

CERTIFICATIONS:

Certified Lean Six Sigma Green Belt	Udemy	April 2020
Six Sigma Statistics Using Minitab 17	Udemy	April 2020

PUBLICATION:

K. Rathi, A. A. (2017). Automatic Central Air Inflation System. IOSR Journal of Mech and Civil Engg (IOSR-JMCE), 01-03

CORE COMPETENCIES:

5S | Cellular manufacturing |21 CFR Part 820 | ISO 13485 | cGMP | Kanban | SIPOC | VOC | PFMEA | Kaizen | JIT | GD&T | Production Planning |Bill of Material | Machine Assembly | Value Stream Mapping | Continuous Improvement | Project Management | Pareto analysis | Forecasting | Process Control charts | Blueprint Reading | CNC programming (G, M Codes) | Simulation Modeling | MOST | Data Analysis | DOE | Process mapping | Valve stream mapping |

REFERENCES:

Josh Hernandez
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