



SHUBHAM KUMAR SINGH

MANUFACTURING ENGINEERING EXP-13 YRS

PROFESSIONAL SUMMARY

Versatile Engineering professional with 13 years of experience in Manufacturing/Production field for manufacturing of mechanical components for Construction Equipment, Material Processing Machinery, Automotive, Indian Railways and Power Generation . Excellent reputation for resolving problems and improving customer satisfaction. A thorough professional with a proactive attitude, capable of thinking in & out of the box. A rich exposure in handling Production activities with key focus on top line profitability as well as optimal utilization of resources.

WORK HISTORY

Nov-2023-Till Date

Caterpillar India Pvt Ltd- Manufacturing Engineering, Hosur TN, IN

- LEAN SIX SIGMA GREEN BELT certified
- New product implementation for Caterpillar Genset as per NPI plan.
- Preparation and update of SWS,SWES,PFMEA,PFDP,CP for New and existing product.
- Design Validation and countermeasure for all NPI launch through VDRA and VB review.
- MBOM validation as per actual usage.
- Focus on PQVC concept for target and implementation.
- Proactively utilize both lean principles and problem solving tools and techniques within the workplace to respond to production variation and build quality issues
- Actively coordination with cross functional team for ECN implementation on shop floor.
- Monitoring the NPI plan through tracker and escalation for any failure.
- Accessing the Team center data for document preparation before production release.
- Develop and implement assembly processes in line with Caterpillar standard processes
- Plan, Perform Process design and Analyze requirements to make recommendations for facility systems, processes, equipment needs, and engineering product designs
- Complete both specialized and broad-based assignments / projects which may require collaboration and integration with other functions
- Evaluate projects and prepare feasibility studies to define desired results, assess value proposition and determine project plans
- Perform capital forecasting correlation and reporting as it relates to new product introduction, product capacity increases, machine replacement and process continuous improvement
- Analyze tooling failures and evaluate tool characteristics and requirements Virtually and Physical validation.
- Improve space utilization in manufacturing.
- Design and Develop Manufacturing Layout with Optimized flow.
- Implementation of CPI changes to address customer Issues.
- Line balancing through Value stream for Different models.

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EDUCATION

PGDM: OPERATION
MANAGEMENT
IMT GHAZIABAD, UP, JUNE
2021. 66.8%

Bachelor of Technology:
Mechanical Engineering
,Uttar Pradesh Technical
University, July 2012,77%

12th Standard School: St
Francis School Ramnagar
Varanasi, ICSE Board,
Percentage: 80%. May-2008.

10th Standard School: St.
Francis School, Varanasi, ISC
Board, Percentage: 81%.
May-2006.

Notice Period-3 month
CCTC-21.5 LPA
DOB-11 July 1990

Sept2021-Oct-2023

Terex India Pvt Ltd- Assistant Manager Manufacturing Engineering, Hosur Tamil Nadu, IN

TECHNICAL

SKILLS:

- New Product Line Setup
- Product Costing
- Man-power Planning
- Line Capacity and Balancing
- Line Layouting
- Material Flow Design
- SWCT
- Man/Machine Utilization
- APQP
- PFD
- PPAP
- PFMEA
- SPC
- MSA
- VSM
- Kaizen
- Continuous Improvement
- Line Balancing
- Time study
- Method Study
- Material Flow Study
- Man Motion Study
- ECRS Concept
- Efficiency Calculation
- Lead Time Reduction
- Plant Layout
- Machine Utilization Study
- Productivity Monitoring
- Kanban
- VSM
- SMED
- Production Planning
- Manpower Handling
- Cycle Time Study
- WIP Analysis

- New product implementation for Modular and Wheel Plant Crushers, screeners and TCS as per NPI plan.
- Continuous process improvement ,Identifying and actioning waste elimination
- Defining and implementing build processes with consideration to appropriate Health, Safety and Quality standards
- Ensuring support process documentation with particular attention to visual management techniques and 5S
- Investigate and resolve manufacturing related problems, Cost of Quality concerns and issues raised by teams across the facility, and leading problem solving teams where appropriate
- Verify manufacturability of new products or product changes to include but not limited to; manpower, equipment, tooling, ergonomics and cost feasibility
- Develop ergonomic processes designed around Lean Manufacturing principles including Yamazumi and 5S
- Work on cross-functional projects to ensure smooth transition across the manufacturing facility.
- Studies manufacturing methods, utilizing knowledge of product design, assembly processes, and industrial engineering. Studies utilization of facilities, equipment, materials and team members to suggest improvements to enhance productivity
- Assists with optimizing efficiency by learning to analyze layout of equipment, workflow, assembly methods, and work force utilization

July2019 – Aug2021 Exp-2.1 yrs

Omax Autos LTD – Assistant Manager Industrial Engineer, Gurgaon, India, IN

- Prepare Material & Information Flow Diagram to study & improve the concerned areas.
- Cycle time reduction through process improvement and MUDA identification in Machining Lines.(CNC turning, CLG grinding operations).
- SMED Concept Implementation in Press shops.
- New Project Proto/Capacity/Manpower/Line Layout Design & Material Flow Planning & Implementation in Coordination with Process Engineering for Railways Product.(Retention tank, Underframe, Side Wall, Roof etc.).
- Existing Products Value Stream Mapping/NVA identification/Lead time reduction/Action Plan Preparation & Implementation.
- Productivity Improvement projects in 5 Plants through IE Tools Line Balancing/CT Reduction/Flexible Line Concept/ECRS Kaizen/Motion study/Method Study.
- Responsible for Lead time reduction activity in plant.(Throughout plant kaizen).
- Plant Layout Study (Factory Layout) to improve area Efficiency
- New product development study (Card board simulation) & process design.
- Time Study, Basic Motion study to improve the productivity of lines
- Productivity improvement through ECRS Kaizens & Productivity Improvement Tools
- Prepare SWCT & SWC's to standardize the work sequences
- Takt Time study to Control the Manpower in Production (Man-Hour)
- Responsible for Product Development from Conceptual Stage till proto development, Drawing study, RFQ, Technical Feasibility, Costing, BOM preparation, Process flow design, FMEA, Process Sheet & Control Plan preparation.
- Line set-up, Cycle-time study, Man-power planning for new line & prepare Material & Information Flow Diagram to study & improve the concerned areas.
- Cycle time optimization through process improvement, MUDA identification, Motion study and SWCT for new line-set-up and existing lines
- Productivity Improvement projects through IE Tools Line Balancing/CT Reduction/Flexible Line Concept/ Kaizen/Motion study/Method Study.
- Training & Development for Production and Quality In charge & Associates. (Productivity Monitoring, Cycle time, Line balancing).

- Productivity Improvement
- New Production Development
- Process Engineering
- Method Engineering

- Responsible for Monitoring and Controlling the SQDCME (Safety, Quality, Delivery, Cost, Morale & Environment) by optimum utilization of Resources and identifying the scope for improvements & implementation.

Sept 2018 – July 2019 Exp-9 month

IMI Precision Engineering.-Senior Engineer , Noida, UP, India

- Monitoring and controlling of productivity by line balancing and conveyor management.
- Exposure in machine planning of LMW/JYOTI/DAEWOO CNC LATHE,MILLING,GRINDING,HORIZONTAL,PRESS,BURNISHING,THREAD ROLLING,BEND SAW,RIVETTING machine
- Responsible for implementing Kaizen, 6S, T.P.M techniques.
- Daily monitoring of Efficiency, PPM levels, customer feedbacks and productivity of the area to know the actual utilization of resources.
- Presenting the Manufacturing Process in weekly report in front of management along with targets achieved, targets taken, CAPA, countermeasures and also responsible for making 8D reports in case of customer concerns.
- Coordinator of Quality circles in the unit thus guiding the teams for taking the projects and results coming out of those projects.
- Kaizen of changing the layout of assembly line which increases the productivity.
- Kaizen of modifying the parts tray of conveyor line which reduces the defects on conveyor.
- Monitoring & Controlling Variable Cost Component (rejection ,indirect material, power etc)
- Planning of monthly, Weekly and day wise production goals as per the marketing requirements and dealing with the production bottlenecks.
- Responsible for Monitoring and Controlling the SQDCME (Safety, Quality, Delivery, Cost, Morale & Environment) by optimum utilization of Resources and identifying the scope for improvements & implementation.
- Supervision of all activities (man, machine, material &method).
- Ensuring system documentation under IATF16949:2016 required in the department.
- Ensuring availability of production aids with regular interactions with PPC, Store and Quality department.

July 2012 – Sept2018 Exp-6.2 yrs

Motherson Sumi System Ltd.-Senior Engineer , Noida, UP, India

- Monitoring and controlling of productivity by line balancing and conveyor management.
- Daily monitoring of Efficiency, PPM levels, customer feedbacks and productivity of the area to know the actual utilization of resources.
- Coordinator of Quality circles in the unit thus guiding the teams for taking the projects and results coming out of those projects.
- Kaizen of changing the layout of assembly line which increases the productivity.
- Kaizen of modifying the parts tray of conveyor line which reduces the defects on conveyor.
- Handling TS documentation/records/traceability procedure.
- Ensuring system documentation under IATF16949:2016 required in the department..
- Quarterly Analysis of WIP by comparing it with book stock.
- To prevent the defects in the process and aiming for ZERO defects by using POKA YOKE techniques.
- To work towards quality & productivity improvement through Kaizen, 6'S activities.
- Conducting Quality circle meeting as a facilitator and completing by involving all the team members.
- Handling the Assembly and PDI activities and ensuring the scheduled delivery on time.
- Minimizing the wastages by utilizing the concept of lean manufacturing.
- Exposure to New product development and line setup.
- Preparing preliminary analysis report regarding any customer complaint.
- Modifying the line layout and working effectively on space saving activity
- To follow the company parameters in terms of QCDDMSES (Quality, cost, delivery, development, management, safety, environment and sustain).

SOFTWARE SKILLS:

- MS Excel
- MS Power point
- MS Word
- Creo View
- Autocad 2013/2018

TRAININGS

- Autocad 2013/2018from Autodesk-India.
- 3M Activity on shop floor.
- Kaizen activity.
- Quality circle.
- 6'S Implementation on shop floor.
- Use of seven QC tools.
- Awareness of ISO/TS 16949:2002
- Awareness of PPAP and Lean Manufacturing.
- 3G