Manvendra Singh
(Process Engineer)

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PROFESSIONAL SUMMARY:

With a total of five years of experience in the automotive industry, I specialize in process engineering, new product development, and quality control.

WORK EXPERIENCE:

M/S Sandhar Automotives Bommasandra – Bangalore, Karnataka   **(11ᵗʰ Feb 2021 – 20ᵗʰ Oct 2022)**

Role: Process Engineer

Job Responsibilities:
New Process Development:
• Develop budget, equipment list, and BOM for new assembly lines and raising CAPEX.
• Selection of best processes for engraving such as Dot Marking, Laser Marking.
• Design new machine/fixture concepts.
• Follow up with suppliers for SPMs development.
• Implement Poka-Yoke to prevent process failure.
• Evaluate takt time and cycle time with respect to volume.
• Design assembly line layout based on assembly method.
• Determine required manpower for production.
• Prepare PFD, PFMEA, SOP, and Control Plan.
• Document PPAP.
• Evaluate process capability (Cp & Cpk).

Improvement in existing assembly process:
• Balance assembly lines to improve productivity.
• Calculate Overall Equipment Efficiency to estimate efficiency rate.
• Work on low-cost automation projects to reduce maintenance and increase productivity.
• Implement Poka-Yoke for better quality and supervisory control.
• Implement CIP to reduce manual effort and increase productivity.
• Use Statistical Process Control (Cp & Cpk).

Sustain and monitor existing assembly lines:
• Monitor working condition of existing assembly lines.
• Record and submit MIS reports for the core department.
• Maintain APQP and PPAP documents.
• Create, implement, and follow up on engineering change orders and deviations following IATF requirements.
• Conduct new product tool trials for development part submission.
• Interact with customers regarding new model development planning and customer audit.
•Maintaining of documents as per IATF standard.

M/S Sunmax Auto Engineering Pvt Ltd – Haridwar, Uttarakhand   **(02nd Jan 2018 – 1st Feb 2021)**

Role: Engineer – Quality/NPD

• Perform daily quality checks, including first piece approval and in-process reports, to ensure compliance with the defined process parameters in Work/Process Instructions.
• Analyze red bin reports and maintain defect monitoring sheets, and record any nonconformities in case of deviation from the defined parameters.
• Conduct CAPA and 8D analysis, and prepare Pareto charts on a weekly and monthly basis to identify and address quality issues and continuously improve product quality.
• Conduct in-process inspections, and monitor process control, as required by the manufacturing process.
• Conduct in-house PPM monitoring, and use various quality tools such as Fishbone and 7 QC tools to reduce in-house PPM and improve process efficiency.

- Conduct training sessions for operators on workman skill matrix, quality improvement, and defect knowledge, and maintain their training records.
- Participate in major audits like customer audits, IATF audits, internal audits, ACMA audits, and Scope activities, and provide necessary support and documentation.
- Responsible for documenting the sample development process and ensuring timely submission of samples for testing and validation.
- Prepare work instructions and standard operating procedures (SOPs), and revise them as per the updates and revisions.
- Coordinate with cross-functional teams to close any deviations in the manufacturing process and ensure timely completion of corrective actions.

PROJECTS:

New Product development:
- Hero Splendor Bike (Main Stand – AAH Model)
- Hero Splendor Bike (Main Stand – AAE Model)
- Hero Passion Pro Bike (Side Stand – AAF Model)
    - Jigs fixtures with pneumatic controls with respect to operator safety.
    - Welding by Yaskawa Robots with minimum cycle time.

Assembly line setup:
- Royal Enfield (Lock Set J1AB Model)
- Honda Motorcycles & Scooters India (100cc Bike – Unknown Model)
    - SPM for End of line testing.
    - Process controls such as proximity sensor, Vision Camera.
    - Electric screwdrivers with thread detection and screw counters.

EDUCATION:
Bachelor of Technologies in Mechanical Engineering
(Amity University, Madhya Pradesh) – 69.9 %

SKILLS:
• New process development • Assembly line layout design • PPAP documentation • Statistical process control (SPC) • Poka-Yoke implementation •   Product Quality Improvement • Assembly technologies • SPM development • Shop floor layout • Capex estimation • GD&T • advanced quality • project management • leadership • Quality control and assurance • CAPA and 8D Analysis • Process control monitoring • PPAP, MSA, 8D, IATF, 5S, KAIZEN, POKA-YOKE • Inprocess Quality Control • Quality Patrolling • Process Parameters • Work/Process Instructions • Nonconformities • CAPA • Fishbone • 7 QC Tools • Failure Analysis • Calibration • Workman Skill Matrix • Operator Training • Cross-Functional Coordination • Deviation Management.

IT SKILL:
Languages: Python
Tools: Jupyter, MySQL, MS Excel, MS Word, MS Powerpoint.
Skills: Machine Learning, Exploratory Data Analysis, Predictive Analytics, Statistics, Statistical Modeling, Time Series Analysis, Regression, Clustering, Classification, Data Science

PLACE/ DATE
MANVENDRA SINGH