PALAKKUMAR PATEL

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Professional Summary

Performance-driven Quality Engineer experience in OEM, Tier 1, FMEA, APQP, KPIs, TPM and major quality experience in automotive industries. Highly motivated, innovative & solutions oriented, comfortable in managing multiple projects for Cooperate, resolving complex problems with a 'can do' attitude.

Professional Experiences

Faurecia- SAS Automotive: (Quality Systems Engineer) **Feb 21- Present**

- **Gemba.** Lead the Gemba tour on the floor with the logistics manager, operations manager, IT manager, HSE & HR Team. Also get the work for 5s & safety of floor with them.
- **Poka-yoke.** Perform Poke-yoke & red rabbit audits on the line. Also check with ACT lead check do check for first of cockpit of the day.
- **Maintain & trained ACT Board.** Updates on ACT board for AQM defects, AQM Visualization, Top 5 report, Check do check, Work instruction, Standard work observations. Also train different leads on this board.
- **LPA.** Implemented the Layered Process Audit in the plant, introduce to everyone with Layer 1 & Layer 2. Conducted surveys and reporting to plant manager.
- **Scrap Management.** Dealing of scrap for SAS and Supplier, giving answer to plant management and Faurecia management for total amount of scrap.
- **KATA QRCI.** At starting phase of implementing of QRCI in company, conducting training with quality team and also with production team.
- **8QB.** Work on the generating the report for the 8 QB for monthly audit for plant on Poka-yoke , Ok First part, Check-do-check, Final Inspections, Management of Non-conformance, Rework Under control, Audit, Problem solving, KATA QRCI.
- **Work Instruction.** Team up with the process engineering for making the new Work instruction plan for new line on the plant. Calculation of the station effective and takt time for each station .
- **Internal Audit.** Perform internal audit for 8 quality basics on shopfloor. According to the Faurecia standard. Supported OES audit & CES audit for plant.
- **OES audit.** Perform the audit for the health and safety, human resources, logistics, operations & quality department, according to the standards of the SAS Faurecia standards.
- **IATF.** Participate and presented my role in IATF 16949 audit with all required documents.
- **Process.** Perform Process Audit within the related areas Supplier Process, SAS Process.
- **SCAR.** Managing the scar from tesla for the different process and answering the question and tries to solve the issues of the supplier and SAS process.
- **Implementation.** According to Faurecia standard implement the logistics crew act board activities and so make sure with them for implement and make them learn the concept.
- **Control Documents.** Maintain and create the records for the work instructions of the Line process and issues the standardize format for the document according to the Faurecia standards.

Faurecia- SAS Automotive: (Plant Quality Engineer) **December 20- Present**

- **Quality Process.** Deliver training sessions to ACT leads on all relevant aspects of Quality process on the line. Managing SCARs and Tesla quality requirements(PPAP,IMDS) as a first contact for customer.
- **Team Management.** 3 Quality Technician and 4 ACT lead for managing the quality inspection, reporting scrap of the line, developing QRQC and AQM for the line, 4 customer liaisons.
- **Documentation.** Managing the Quick Response Quick control (QRQC), Quality Alerts and ACT boards audits for documentations, FMEA, Gap and flush measurement.
- **QRQC.** Train the GAP leader and the Quality technician for the QRQC, how to write in proper way and also make them learn the lesson outcome from the QRQC.
- **Continuous Improvement Process.** Support Continuous Improvement Process, Planning, Realization & Management of related equipment, implemented 5s and 7 quality basics to operators & Act leads.

- **Quality Alerts.** Creating the quality alerts for the corrective actions, applying the Ok and NOK situation for better understanding of the operator.
- **Act Audit.** Make sure the GAP leader to do the Act board complete for the audit on daily basis, updating of the Standard work observations, job rotation, first park Ok, Error proof verification, reworks records, multivalence for the operators.

Tesla: (Manufacturing Process Associate) **September 20- November 20**

- **Manufacturing Processes.** Performed time and work sequences studies to review and recommend an adjustment to manufacturing processes and tooling for incorporating line flexibility for 2 products ensuring station utilization and safety.
- **5s.** Maintaining the station safety and 5s quality check for every process in my station.
- **Material Flow.** Identified and eliminated non-value-added wastes in material flow.

Honda Manufacturing of America: (Quality Engineer) **May 20- August 20**

- **Quality Improves.** Working on quality improves for Paint and Assembly department, Verify production and machine maintenance schedule.
- **Root Cause:** Analyze the root cause of the issues by making the fishbone diagram, 5 whys questions.
- **Transducer & Analyzer.** Had a experience in taking the measurement of the guns torque values with transducer and analyzer. Perform Cpk and Cmk values for the guns. Calibration of guns were also conducted.
- **Analysis.** Prepare various documents for manufacturing line for support such as FMEA, APQP, also perform root cause analysis.
- **Containment Actions.** Applied containment actions for various issues of the line from the EOL fine at the ends of the car, of missing the screw, soft connections of the plugs.
- **Implementation.** Help in improving implementation phases of new model also coordinate and track of its action.
- **Documentation**. Work on documentation part for testing the automotive assembly line which involve creating a Process flow, KPI reports, control plans and various other quality aspects.
- **Analytical Tools.** Investigated quality issues with root cause analysis using analytical tools like PFMEA, Control Plans, DMAIC approach and suggested Torque converter bolt with help of Poka-Yoke.

Pi-Square Tech: (Industrial Engineering Intern) **Jan'20 -April 20**

- **Design.** Design a performance metrics for complex manufacturing system for an automotive assembly line to improve cycle time, JPH, and productivity using Discrete Event Simulation.
- **SIMUL**. The testing model using SIMUL8 software is developed for complex manufacturing automotive assembly lines. Power and Free type of Conveyor System are incorporated as a buffer stack between the stations.
- **Throughput.** Performed Catastrophic downtime analysis for specifications of workstation to investigations the buffering effect of a conveyor system. Performed throughput capacity and bottleneck analysis of an automotive manufacturing assembly line.
- **DMAIC & DMADV.** Defined & implemented the process and parameters of vendors assembly line.
- **PFMEA.** Identified and minimized complex manufacturing automotive assembly lines.
- **Lean Engineering & Line Balancing.** Learned various changes to line using lean manufacturing & techniques to reduce the cycle time.
- **Continuous Process Improvements**. Carried out process improvements on the line & using six sigma techniques. Worked on setting up KANBAN system with automatic replenishment, created flowcharts for 5S operations on the line, TPM methodology & Lean Waste Culture

Cosmos Impex Pvt. Ltd: (Industrial Engineer) **May 17- May 18**

- **Process.** Challenged with increasing product quality, improving process flow, and reducing costs while maintaining or improving safety for large CNC machines.
- **Testing Equipment.** Test the system of CNC machine though the quality inspection tools like CMM machine.

- **Data Analysis.** Calculate the inventory of the CNC machine & Data analysis of CNC machine in Field of production
- **Scheduling.** Established first preventive maintenance schedule for CNC machine, ensuring optimal equipment operation through associated cost reductions.
- **Continuous Process Improvements**. Carried out process improvements on the line & SDU line using AutoCAD using six sigma techniques. Worked on setting up KANBAN system with automatic replenishment, created flowcharts for 5S operations on the line.

Turn-well Engineering Works: (Supplier Quality Intern) **Jan' 16- March 17**

- **Collecting Information.** Protectively communicate with suppliers in a timely manner about order status, pricing, and shipment status.
- **Quality Checking**. For quality checking of the raw material and inventory management also done.
- **Solving Issues**. For the non-confirming part and make the supplier do NCR reports. Also ask and reviewed the 5 whys analysis of the parts and try to find the root cause.
- **Data Visualization.** Request and maintain vendor master data and support vendor on boarding and off boarding process for welding material at last inspection.

Education

Wayne State University, Industrial & System Engineering, Detroit, MI **Graduated** May 2020

- Master of Science in Industrial & System engineering **GPA**: 3.28
- **Course Work:** Quality Management System, Production System, Deterministic Optimization, Applied Engineering Statistics, Supply Chain Management, System Engineering, Risk & decision analysis for Engineering, Strategic Procurement, Six-Sigma.

Parul University, Engineering Department, Vadodara, India **Graduated** May 2018

- Bachelor of Mechanical Engineering **GPA**: 3.4
- **Course Work:** Operation Research, Manufacturing Processes I & II, Quality Engineering, Design of Engineering.

Areas of Expertise

- 8QB
- Six Sigma
- Gage R & R analysis
- CES & OES
- KPI
- 8D reports
- FMEA/PFMEA/DFMEA
- Ok First part
- Cpk & Cmk
- QRQC
- 5's
- Workflow

PROFESSIONAL SUMMARY:

- Experience with automation projects and its FMEA, control plan, PPAP, MSA, SPC.
- Perform various internal audit on the plant for quality system audit of OES & CES.
- Strong communication skills, both written and verbal.
- Experience in IATF audit, ISO audit and vast knowledge of MS office in Excel, Word and PowerPoint.

Certifications

- Lean Six Sigma Green Belt from ASCB **May 18**
- American society of Mechanical Engineers Student Member **April 17**
- SAP MM training from LinkedIn **April 20**
- Project Management from LinkedIn through NSDA **April 20**
- Six Sigma green belt from Wayne state university **April 20**
- Customer Drive Satisfaction from Faurecia **Jan 21**