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| **KOTTESWARAN R** **kotte.mech@gmail.com****+91 9611808373.** | **D.No;30th SELVAM NAGAR MAIN ROAD,****NEW LAKSHMIPURAM,****KOLATHUR,** **CHENNAI-600 099,****TAMIL NADU,****INDIA.** |

##  OBJECTIVE

 To leverage my expertise in manufacturing technology and contribute effectively to organizational success by striving for excellence and delivering high-quality results.

##  SUMMARY OF WORK EXPERIENCE

 **Automotive professional** with **17+ years’ experience** **in Greenfield** and **Brownfield projects** across **Passenger Cars, Tractors, Construction Equipment**, and **General Assembly**. Skilled in **Manufacturing engineering**, production operations, quality assurance, process improvement, and team leadership in high-volume environments. Committed to driving operational excellence and continuous improvement.

Working in “**DOOSAN BOBCAT INDIA PVT** **LTD”** Chennai,

 As a **Deputy Manager** **– Manufacturing Engineering Department**,

 From **Sep 2018** to **till date.**

* Worked in “**TRACTORS AND FARM EQUIPMENT** **LTD”** Bengaluru,

 As an **Engineer – Manufacturing Engineering Department**,

From **Jan 2012** to **2018 Sep date**.

* Worked in “**SL LUMAX PVT LTD”** Sriperumbudur, Chennai

 As a **– Junior Engineer – Plant Engineering**

From **June 2009 to Jan 2012**.

* Worked in “**FORD INDIA PVT LTD”** Chennai,

 As a **Technical Associates** **– Manufacturing engineering-Powertrain**

 From **Nov 2007 to May 2009.**

##  JOB DESCRIPTION

 **Title # 1 Responsibilities – Manufacturing Engineering Department.**

* Global footprint study to plan approval, execution, implementation, **Trail Run, Pre-Pilot, Pilot,** and **SOP** operation activities for Construction Equipment-

(Backhoe Loader, Skid steer Loader, Excavator), Tractor, and Passenger Car.

* Undertake **NPI** **(New Product Introduction)** activities for new models of Vehicles including process facilities setup, fixture/tool design/modification, SOP creation, and **Cloud storage database updates** using **CREO 9.0,** **Windchill PLM**, and **Extra Link Prelink\_Be450 Bobcat Standards Software application.**
* Implemented **Levergent LogicApps** **MES** suite modules for enterprise global manufacturing intelligence, automated data capture, and Traceability management.
* Implemented **Global** [**Manufacturing Execution System** **(MES)** Software](https://www.3ds.com/products/delmia/manufacturing-operations/manufacturing-execution-system) **DELMIA Apriso** **MES & ERP** for real-time production tracking, inventory movement, and quality control operations.
* Performed process validation for **ECN** updates and **MBOM** creation and corrections for online updates.
* Led New Project vehicle build phases including **Pre-Pilot (Proto)**, **Pilot**, and **SOP**, directing vehicle prove-out activities on the production line to ensure performance and quality standards.
* Held responsibility for leading assembly and overall projects related to **Rear Transmission, Transmission, Engine, and Trim & Chassis. TCF - General Assembly Line.**
* Practiced **Focused Improvement (Kobetsu Kaizen)** and **Early Equipment Management (EEM)** under **TPM pillars of Toyota Production System (TPS)** to enhance equipment reliability and reduce production losses.
* Participated in company-wide VSME program, focusing on assembly flow improvements and **Process innovation** under guidance from **Japanese VSME** expert **Mr. Furohasi San**. Carryout activities for ramp-up production volume and analyze current facilities.
* Designed and updated layouts for vehicle assembly lines and overall plant in **AUTO CAD Software.**
* Executed **Ramp-up production** volume activities and analyzed current facilities for improvements.
* Prepared **CAPEX** (Capital Expenditure) /**OPAEX** (Operational Expenditure) manufacturing requirement estimates and capital appropriation requests for new and existing product lines.
* Practiced manufacturing with **Zero Defect**s and applied **Karakuri Kaizen** methods.
* Studying part drawings and generate appropriate **Process sequence** meeting least

set ups, **Cycle time** and **Line balancing** and to suit available Assembly process.

* Collaborated with suppliers in developing **Special Purpose machines** **(SPM)** Component washing machines, Assembly Conveyors Assembly workstations, Common tools and Fixtures, Testing equipment, and Material handling equipment,
* **Negotiated with suppliers** to ensure facility plans were met within budget.
* Implemented **Poka-yoke (Error Proof system)** using **Image capture sensors with AI** and quality countermeasures with process-related suggestions.
* Generated, reviewed, and updated process instructions, work procedures, and documents including **PFD, PFMEA, SOP, SWI, QCPC, APQP.** and work standards for all Assembly process.
* Maintained **ISO** and **TS** documentation related to **PED.**
* Raised CAPEX & OPAEX purchase orders via **Cloud Computing SAP Ariba** and **Oracle systems**.
* Led improvement initiatives through RR/Fitment trials, process validation-reporting.
* Managed warehouse an assembly and paint line kitting part feeding-**FIFO/KANBAN/JIT (Just in Time)**
* Experienced in **Machine Dispatching Methods** including **PKD, SKD, and CKD** for **Domestic** and **Export vehicle shipments**, ensuring efficient packaging, logistics planning, and compliance with **Global manufacturing standards**
* Coordinated daily **Fabrication activities**, Manpower, and job allocation for internal Continuous Improvement activities

**Significant Achievements.**

* Successfully implemented **Greenfield projects** for **8,000 units of Construction Equipment** (Doosan Bobcat) for both **Domestic and Global markets**, including facility setup for **Backhoe loaders, (B900, B730, B760) Skid steer loader, (S70&S160 North America,** **S450, S590)** **Excavator, (E88, E37, E27)**
* Delivered **10,000-Volume Greenfield project for Compact Tractors** (BOBCAT) with complete facility establishment for **North America models**: **CT20, CT40.**
* Executed **3,000-Volume Tractor Greenfield project** for Doosan Bobcat by setting up production facilities for models: **CT10, CT20, CT30, CT40, CT55**.
* Played a key role in **TAFE with Massey Ferguson** is a worldwide brand of**AGCO 72,000 Tractors Brownfield Project**, successfully commissioning all facilities to support **250 Tractors/day** for models like **Orchard, Challenger, and Gajarai.**
* Contributed **to Ford India Greenfield Phase-1** Engine Plant Setup, enabling production of **23,000 Engines/year** (Fiesta, Icon) with a daily capacity of **90 engines**.
* Commissioned a **1,000 Sq.Mt. Warehouse** for storage and dispatch of attachments, vehicle equipment, and parts, enhancing operational logistics.
* Focused on **Safety, Quality, Cost, Delivery, Environment, Ergonomics & Efficiency (SQDCE)** principles.
* Implemented **Industry 4.0 solutions and Digital Manufacturing** for Parts kitting System, Vehicle travel card digitization and documentation management

**Line improvements.**

* Implemented **Digital Barcode Sequence Kitting System** for Parts Kitting, Painted Parts Kitting, and Chassis Assembly, improving material flow and reducing line stoppages.
* **Introduced the Single-Shot Sub-Assembly concept** across all vehicle models as part of **Process Improvement Initiatives**, leading to enhanced assembly efficiency, reduced cycle time, and streamlined operations.

**Counter measures executed to customer complaints.**

* **Implemented vision-based fool proofing system** at the front axle hub assembly to eliminate the missing of cotter pins, ensuring 100% fitment accuracy.
* **Installed fool proofing at the Transmission-to-Engine mounting station** using **electric nut runners with torque monitoring and interlocks**, effectively eliminating assembly misses and low torque issues.
* **Deployed an OIB shim assembly and monitoring system** to eliminate human intervention and ensure **Zero Occurrences of missing shims**, thereby improving build quality and consistency.

**Title # 2 Responsibilities – Plant Engineering**

* Coordinated daily shift activities, including **Manpower management and job allocation** for seamless operations.
* Conducted **breakdown analysis** using **TPM tools** such as ***Why–Why Analysis*** to identify root causes and implement corrective actions.
* Reported technical issues and progress updates to senior management, ensuring **transparency** and **Timely decision-making**.
* **Planned and executed preventive maintenance schedules**, improving equipment reliability and reducing downtime.
* Managed **procurement of spares and indirect materials**, including **contractor selection and finalization**.
* Supervised and cross-checked **contractual and outsourced works** to ensure **quality standards and timely completion**.
* Prepared and presented **weekly/monthly reports** to management and obtained approvals for ongoing projects and material requirements.
* Negotiated with suppliers and contractors for **cost control** and managed **warranty claims** effectively.
* Hands-on experience in **plastic injection molding machines** (up to 1000 tons – LS, LG, JSW, BMC), **overhead cranes (10 tons)**, and other major plant machinery.
* Skilled in the operation and maintenance of **paint robotics systems**, **hot plate welding machines**, **forklifts**, **auto feeding systems**, and **conveyors**.
* Proficient in troubleshooting **hydraulic and pneumatic systems**, including valves, cylinders, vacuum pumps, diffusion pumps, and turbo pumps.
* Experienced in managing **Utility systems** such as **DG sets (up to 1250 KVA)**, **Air compressors**, **Dryers**, **Chillers**, and **Cooling towers**.

##  EDUCATIONAL QUALIFICATION

* **B. Tech, Institution of Mechanical Engineering, (INDIA)**

 **2012 to 2014 Passed out** fromBengaluru. Karnataka.

* **Diploma Mechanical Engineering, 2004 to 2007 Passed out**

Dr, MGR Polytechnic College, Arni, Tamil Nadu.

##  SOFTWARES

* Knowledge on AutoCAD, Creo Parametric 9.0, Microsoft 365 tools, Power BI

##  TRAINING PROGRAMS ATTENDED

* PFD, PFMEA, SOP,7QC TOOLS, TPM - KK & DM PILLER, KAIZEN, ECPL,

##  PERSONAL DETAILS

Father’s Name : Rajeindran G

 DOB : 13th February -1987

Permanent Address : # 3/423, Pillayar Koil Street,

 Punalapadi, Velapadi (Post)

 Arni (Taluk) – 632317 Tiruvannamalai (District)

 Tamil Nadu.

Nationality : Indian

Language Known : English, Tamil, Kannada, Telugu, Malayalam, Hindi.

Passport status : Indian Passport Holder | Valid through 04 /2034.

##  DECLARATION

I hereby declare that the above statements are true to the best of my knowledge and belief.

**Date :**

**Place : Chennai (KOTTESWARAN R)**