

# SELVAMANI K

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## ABOUT ME



**Manager -Hyundai Motor India Limited**

*Senior Specialist in BIW Manufacturing*



6Years 07months || ( Jul'15~ Till date)



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Chennai, Tamil Nadu, India

A competent professional with expertise and knowledge on Line building, Production layout preparation, Line automation, Equipment planning, Project planning, Product manufacturing, Quality analysis, seeking a position in manufacturing or R&D field, to leverage my knowledge, by contributing through a positive and frugal approach towards company's goal.

## SKILLSET

Team work

Decision Making

Strategic Thinking

Leadership

Team Management

Lean Manufacturing

Prioritization

Problem Solving

Communication

Result Oriented

Time Management

Flexible, Adaptive



## WORK EXPERIENCE

### PLANNING FOR LINE BUILDING

- ❖ New line location study considering **Material handling, Part storage, Product transfer.**
- ❖ Layout preparation with **max capacity study, additional line capacity** requirements.
- ❖ Line layout design for **Multi model requirements & Automation.**
- ❖ Design & Process **FMEA analysis** for equipment & Line process.
- ❖ Material movement, **Storage requirements preparation** for line feeding with minimal transfer.
- ❖ Compatibility study to convert **manual process to Automation** considering space and technology.

### INSTALLATION FOR NEW PROJECT

- ❖ **New equipment (Jigs, Sealer systems, Robots) planning**, design review, procurement & line installation.
- ❖ **Sealant system** study, planning, ordering, line installation, try-out & Quality stabilization for new model.
- ❖ **Mechanical & Electrical Utility/Facility planning**, ordering & Installation for new equipment installation.
- ❖ **New equipment installation**, try-out & Quality stabilization.
- ❖ **Transfer devices** (for Sub-body) planning and installation for Manual weld guns, EMS Hangers.
- ❖ **Part handling systems** like Hangers & Assistive tools planning & installation to reduce line operator fatigue.

### NEW PRODUCT DEVELOPMENT

- ❖ Review new model **Design from development (L1 stage) & provide feedback to R&D** considering line equipment & Facility compatibility to reduce new equipment procurement costs.
- ❖ **3D & 2D Model** design verification on **CATIA V5 and AutoCAD Software & ModVIEW.**
- ❖ **Weight reduction proposals & Implementation** during initial design stages by comparing similar platform car models.
- ❖ Automotive exterior parts & BIW components **Product Development Knowledge & Dimensional.**

### PROJECT MANAGEMENT AND LEADERSHIP

- ❖ **Lead an 8 Member Cross Functional Team** from multiple departments in achieving the rear end quality by stabilizing BIW quality & Assembly part dimensional quality and for 3 FMC models.
- ❖ **Lead a 6 Member Cross Functional Team** in achieving BIW CMM precision, Weld quality & Panel matching defects for 1 FMC model.
- ❖ **Leading a 4-member team as side line** (Structure) in-charge for all new model manufacturing.

## INTERNATIONAL EXPOSURE

- ❖ Line layout study of **overseas plants (ASAN, ULSAN, NAMYANG)** and implement ideas in new layout.
- ❖ Pilot stage participation to identify **key focus points (Part matching, Dimensional Accuracy, Workability)** for new models in **R&D Centre in Namyang, Korea**.
- ❖ **New model & Line Equipment inspection** and try out in **Ulsan, Korea** for Design, Workability and Dimensional validation.

## PRODUCT QUALITY

- ❖ **CMM data analysis** for car model & plan corrective measures for improving overall structural accuracy percentage achieving BIW and CBU quality.
- ❖ Appearance quality achievement – **Gap, Flush, Parallelism and Alignment, Weld quality**.
- ❖ Knowledge of **GD&T, Design and Manufacturing Requirements** & constraints on typical **Plastic Parts and Sheet Metal**.

## ENGINEERING SUPPORT AND COST SAVING

- ❖ **Technical Specification Sheet & BOM Preparation** for equipment purchase **Using SAP ERP**.
- ❖ **MODAPTS preparation** & cycle time analysis for Manpower required in production line.
- ❖ Manufacturing line improvement for increasing **Efficiency, Pass Ratio and Cycle Time**.
- ❖ **Monthly efficiency analysis** to identify major line breakdown & propose replacement in new project.
- ❖ **Existing equipment (Robot, Jig) Aging**, consistency & Breakdown time analysis & plan for replacement.

## SPECIAL ACHIVEMENTS

- ❖ **Localized jigs** in Body shop for moving parts installation (Tailgate, Door, Hood, Fender) in manual line to **reduce cost (1.5 Crore)**.
- ❖ Upgraded BIW **Trolley transfer to Roller conveyer system** to improve workability & ergonomics.
- ❖ **Stabilized quality** & achieved target for new car model before SOP (Start of Production) stage.
- ❖ **Designed a Semi-Automation layout in AutoCAD** for Automating welding from Manual to Auto.
- ❖ **Simulated 3D design** of new model layout to identify equipment location & constraints.

## COURSES & CERTIFICATIONS

- ❖ Attended LinkedIn courses prepared by my organization on important topics like **IoT, Big Data, Predictive analysis, Strategic Thinking, Interpersonal Communication**.



## EDUCATION & TRAINING

- ❖ **SRM UNIVERSITY:** Automobile engineering *Chennai, (2011-2015)*
- ❖ **AUTOMOTIVE COACHES AND COMPONENTS LTD:** Cabin & Front-end Assembly line study and workability improvement *Chennai, (2014)*
- ❖ **TVS SUNDARAM MOTORS:** In plant training in Service (Volkswagen). *Chennai, (2013)*



## SKILLS

### SOFTWARE SKILLS

CATIA V5

MODVIEW

AutoCAD

SAP

EBOM

VAATZ

MS OFFICE

- ❖ **SOFT SKILLS:** Expertise in Planning, Good Written and communication skills, Leadership and Managerial Skills, Good Interpersonal Skills
- ❖ **EXTRA CURRICULAR:** State Level Football Player in High School