A person wearing a hat

Description automatically generated with medium confidence **Ajin Raj Rajendran Pillai**

6.3 Years of Experience in Automotive IndustriesChennai, Tamilnadu, India

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**SUMMARY**

To pursue highly challenging career where I can apply my learning and skills effectively to acquire knowledge and work hard for self and organization growth. As a potential engineer, I am confident of the fact that I will deliver my best to become the asset of the company using the best of my skills.

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| --- |
| General Skills |
| * Support vehicle dimensional concept in context to downstream manufacturing processes. * Provide support in generating strategy concepts, which is required for Assembly jigs, Fixtures. * QVCC (Quality Variation Control Characteristics – Stack Up) activity to capture and arrest the dimensional variation of the vehicle. * Part geometry confirmation for fixture and for manufacturing feasibility. * Providing geometric dimensioning and tolerancing (GD&T) support on vehicle   programs. * Supporting appearance and functional dimensional issue resolution on vehicle programs. * Top-down analysis of the defects on the assembled vehicle Gap & flush. * Defining Measurement Points on BIW panels for CMM level checking input reports. * Identifying Defects Per Unit (DPU) in production. * Validating parts for Isostatism. * Liaison between Product Development team and Dimensional team. * Ensuring product for manufacturing feasibilty through robustness check. * Analysing supplier parts for global standards and feasibility. * Automation of spot welding (RSW & PSW) for robots in Body shop. * Evaluating BIW for Part Coordination Fixtures (PCF). * Ensure product geometry for manufacturing feasibilty through robustness check. * Developing fixture concept and CMM measurement points on BIW panel. * Ensure product geometry for manufacturing feasibilty through robustness check. * Analysing and maintaing Paint shop data and capturing it in control sheets for quality audit. * Analysing BIW 3D product data as manufacturing requirements and confirm F&F sheet. * Experienced in Teamcenter, 5Why analysis, Ford 8D, DFMEA and RCA. |
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EDUCATION

* + - * 2016 - 2018: Master of Business Administration in Operations Management
      * 2011 - 2015: Bachelor of Engineering in Mechanical Engineering

WORK EXPERIENCE

* + - * 2021-Till Date: Assistant Manager Segula Technologies India
      * 2019-2021: Engineer Renault Nissan Technology & Business Centre India Private Limited
      * 2018-2019: Member of Technical Staff HCL Technologies
      * 2015-2018: Design Engineer EASi Engineering (Deputed to Ford Motor Company India)

TOOLS & Skillset

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| --- | --- |
| Engineering Softwares | CATIA V5 & V6, TeamCenter, FIDES, VisMockUP, 3DCS, Process Simulate, Windchill, CM4D, ERP, AutoCAD, SpaceVision, Datautility, Vis VSA. |
| Technical Skills | Perceived Quality Analysis, Tolerance Stack Up, Contol Sheets, Quality Variation Control Characteristics, Datum creation, Meaurement Points creation (CMM Check points), Product Lifecycle Management. |
| Package | MS Office suite (Excel, Word, Powerpoint, Outlook) |

EXPERIENCE ABSTRACT

From Jun 2021 to Till Date

* + - * Assistant Manager - Segula Technologies India

Product Process Confirmity (GD&T) & Vehicle Assembly Engineering :

* Support vehicle dimensional concept in context to downstream manufacturing processes.
* Provide support in generating strategy concepts, which is required for Assembly jigs, Fixtures.
* Part geometry confirmation for fixture and for manufacturing feasibility.
* Performing the tolerance analysis modeling and reporting on vehicle programs.
* Providing geometric dimensioning and tolerancing (GD&T) support on vehicle   programs.
* Performing equipment feasibility check.
* Creating welding fixture strategy and providing GD&T for BIW parts and assembly.
* Creating checking fixture strategy and supplier RFQ convergence for exterior and interior trims.
* Ensuring Gap & Flush (Perceived Quality) of car.
* Responsible for workload, workforce management.
* Co-ordinate and manage with team members to achieve deliverables and mange team administration.
* Implementing workflow procedures based on direction.
* Proposing manufacturing requirements feedbacks to designer based on convergence.

From Aug 2019 to 2021

* + - * Engineer - Renault Nissan Technology & Business Centre India Private Limited

BIW Process Engineering (Production Engineering) :

* Process Simulation of robot line, plant cell creation and assembly line.
* Performing QVCC (Quality Variation Control Characteristics) activity to capture and arrest the dimensional variation of the vehicle.
* Checking the line robot and weld gun feasibility with simulation.
* Assuring Gap and Flush of Panels with Fit & Finish data.
* Preparing Process Operation Sheets (POS) and process flow sheets for plant production.
* Inspect plant for drawing compatibilities and quality assurance (IQA).
* Defining Assembly Sequence, Weld Balancing, Weld gun accessibility confirmation.Analyse the feasibility of using existing welding equipment / Robot for Assembly or to plan new welding equipment (Manual or Robot), based on process, cycle time, workability, quality and cost.

From Aug 2018 to 2019

* + - * Member of Technical Staff - HCL Technologies

Engineering Change Management and Regulatory :

* Conduct the execution of design protocols, DHF and DMR.
* Preparing equipment specification documents for designing assembly fixtures, Unique checking Fixtures and inspection fixtures (In-house and vendor) to achieve F&F target.
* Initiating and executing the work through ECR, ECO and implementing the proposed through ECN through Windchill PLM.
* Preparing DFMEA documents for products.
* Planning for cost reduction studies and implementations.
* Proposing manufacturing requirements feedbacks to designer based on GD&T.
* Sound knowledge in 5Why analysis, Ford 8D, DFMEA and RCA.
* Screening candidates to fulfill work profile vacancies.
* Assiduous in maintaining the relationship between client and employee.

From Aug 2015 to 2018

* + - * Design Engineer - EASi Engineering (Deputed to Ford Motor Company India)

Dimension Control and Variation Analysis Engineer :

* As Dimensional Control Engineer with responsibilities to create locator clamps for checking fixture, assembly fixture of BIW panels and assemblies.
* Preparing assembly flow chart from initio to Car On Wheels(COW).
* Handling employees relation with customers.
* Handling employees training and attendance.
* Coordinating and executing fringe benefits for employees.
* SPOC for EASi employee to address their needs.
* Liaison between EASi and Ford motor company.
* Defining Assembly Sequence, Weld Balancing, Weld gun accessibility confirmation, Gun optimization, Weld parameter setting and Jig specification definition.
* Experienced in Teamcenter, 5Why analysis, Ford 8D, DFMEA and RCA.
* Analyse error and prepare quality sheet with corrective actions.

Web Based Data Management Engineer :

* To study plant data for running model and prepare statistical process control charts.
* To study process capability and process performance is through the statistical measurements of *C*p, *C*pk, *P*p, and *P*pk
* To analyse plant paint shop data for deposition rate and calculation.
* Analysing and maintaing Paint shop data and capturing it in control sheets for quality audit.

KNOWLEDGE

* Simultaneous Engineering
* Dimension Control Engineering
* Tolerance Stack up
* Simulation Engineering
* Employer-Employee Relations
* Web Base Data Management Engineering
* Body shop and Trim process flow
* Vehicle digital Fit &Finish related concern analysis and Closing
* Assembly stack up calculation (QVCC) & Perceived Quality
* Automation of spot welding for robots in Body shop through Process Simulate
* Concern Closing (RCA) and Ford 8D

PROJECTS HANDLED

* Ford Expedition – Ford North America
* Lincoln Aviator – Ford North America
* Ford B500 – Ford China/Thailand
* Ford Ecosport – Ford India/South America
* Ford Mustang – Ford North America
* Ford Explorer – Ford North America
* Nissan Sylphy – Douai, France
* Renault Kangoo – Palencia, Spain
* Nissan P02F – Palencia, Spain

LANGUAGE SKILLS

* **English**
* **Japanese(N5)**
* **Tamil**
* **Malayalam**
* **Hindi**

SELF DECLARATION

I hereby declare that all the information given above is true and correct to the best of my knowledge.

Chennai Ajin Raj Rajendran Pillai