**Curriculum Vitae**

**SHARAT HEGDE**

Email id:[sharathegdesce2011@gmail.com](mailto:Shrayankgowda@gmail.com)

**Mobile: +91-9964232455**

**Career Objective**:

To work in a healthy, innovative and challenging environment extracting the best out of me, which is conducive to learn and grow at professional as well as personal level thereby directing my future endeavors as an asset to the organization.

**Present Work Experience:**

Working as **Senior Engineer in Tech Mahindra Limited., Bangalore,** and Rolling Stock (Metro Transportation) Division from 3rd July 2016 to till date.

**Past Work Experience:**

Working as an **PROJECT ASSISTANT - 2**in **Aeronautical Development Agency**, Bangalore, CAD and PLM group from March 2014 to 30th June 2016

Working as an **Mechanical Engineer** in **Aeronautical Development Agency**, Bangalore CAD and PLM group through **Sheeba Computers** from December 2012 to February 2014

**Summary of Experience:**

* Overall 4 years of experience in Aerospace Industry and Metro Transportation
* Experience in 3D Electrical Wire Harness
* Hands on experience in Enovia 3D COM/CATIA V5 ECAD +MCAD modules
* Experience in DMU Check
* Drawing validation/Design Quality Check (DQ) and releasing of Tejas Fighter/Trainer structure & systems drawings as per Hindustan Aeronautic Ltd standard in Enovia VPM environment
* Designing, drawing generation of A/C components using CATIA V5 R19.
* Good Knowledge in Aircraft Structures and Systems
* Experiencein Geometrical Dimensioning & Tolerancing and Tolerance stack up Analysis
* Interacting with HAL - ARDC designer team and LCA Production group for implementation on Aircraft.

**Technical skills:**

* CAD Tools:CATIA V5 R19 (MD2 modules + Electrical CAD modules)
* PDM tools: Enovia 3DCOM & Team center
* Technical suites/packages: Microsoft Office and Excel

**Projects Handled:**

1. **Smart Dubai Metro Rail (Electromechanical Integration)**

**Software Used:** CATIA V5 (MD2 + Electrical modules), Enovia VPM

**Role :** Team Member

**Activities Carried out**

* Prepare DMA architecture for Harness installation
* Positions the elements and supports in DMA environment
* Calculation of bundle diameter
* Cable trays/Cable ducts design and its mounting definition.
* Electrical Harness routing based on connectors device list.
* Harness routing for Roof, Under frame, Driver cab and bundling of wires based on the classification/grouping both HV and LV cables
* Good understanding of EMI/EMC, Earthing, Cable Protections & Harness Installation.
* Selection of Harness protection based on the location and efficiency, eg. Cable Clamps & Conduits for Harness Installation.
* Generation of XML output report as per NEO Electrical Methodology for the created Harness

Installation

1. **Generation of 3D Electrical Looms for LCA NavyTrainer NP5 /Limited Series Production DMU.**

**Description**  : To generate 3D Electrical Looms (300 Nos) and the corresponding installation drawings for LCA Navy Trainer NP5/LSP Standard DMU

**Software Used** : CATIA V5(MD2 + Electrical modules), Enovia VPM& Teamcenter

**Role** : Team Member

**Activities Carried out**

* Creation of CGR using existing NP5 aircraft Structures and Systems for routing purpose
* Generation of Breakdown list using NP5 Electrical database
* Creation of R01part (extraction of LRU's surfaces) using existing NP5 LRU's models/installations as per Breakdown list for the given Electrical Loom
* Working with electrical catalogue for connectors, Back shells, Junction modules, sleeves, P-clips etc
* Creation of Electrical Harness product file (.CATProduct) and uploading to Enovia VPM
* Assembling and positioning of Connectors, Back shells, Junction modules, as per break down list for the corresponding individual loom as per MIL-Standards
* Calculation of Bundle diameter
* Arranging the P-Clips by using catalogue near to the structures & cutouts in order to pass electrical wire routing
* Checking the Interference/Clash analysis with cross functional groups to generate electrical routing path
* Bundling of all the individual looms according to Aircraft zone wise data
* To prepare the exhaustive databases of all inventories required for the looms, and system LRUs having electrical interface

1. **Digital Mock Up (DMU) of LCA Navy Trainer NP5**

**Description :** To build a Digital Mockup (DMU) of LCA Navy Trainer (NP5) standard to meet Limited Series Production (LSP) requirements. Navy CAD data contains Structures, Equipment’s/LRU System pipelines and 3D Wire Harness.

**Software used:** CATIA V5 R19, Enovia VPM& Teamcenter

**Role :** Team Member

**Activities carried out**

* Checking existing 3D CAD models against Drawing Applicability List (DAL), CATIA V5 Product Structuring and Material schedule (MS-Sheets), for LRUs, system pipelines, and Structural models for higher issues
* Conversion of 01F & 01K series Systems (Hydraulics & Environment Control Systems) CAD models, drawings, Material Schedule into required 01P series using CATIA V5/ENOVIA 3DCOM software
* Checking the Inboard LRU’s w.r.t Equipment Standard of Preparation (ESOP)
* Interference/ Clash analysis and Clearance analysis at two levels viz, functional and cross functional groups
* Generation of Interference/Clash report, Record the observations / deviations from all the above activities and inform to the designers
* Build the DMU with actual CAD data as well as light weight models considering multi CAD functionalities
* Review and update the DMU periodically based on the designer input
* Downloading the DMU CAD models (Structures, Pipelines, Systems ) from Enovia VPM

1. **LCA Drawing validation/Design Quality Check (DQ) and releasing through Enovia VPM Environment at HAL-ARDC:**

**Description :**Design Quality Check (DQ) and releasing of all LCA-Tejas Structural and Systems drawings through Enovia VPM Environment.

**Software used :** CATIA V5, Enovia VPM.

**Role :** Team member

**Activities carried out**

* Validation and verifying the LCA structures (Fuselage & Wing) and systems drawings, Material Schedule (MS-Sheet), Change notice, Project slip (PS) drawings as per Hindustan Aeronautics Limited (HAL) standards.
* Checking the links between 2D drawing and 3D models
* Cross verification of all information in drawing title block (drawing number, name, and design attributes values) for one to one matching.
* Generation of MEMO number to all drawings in Enovia Portal R19 software.
* Releasing of same MEMO number generated drawings, using Enovia Portal R19 software.
* Total number of drawing released is more than 350.

**5. Tolerance Stack up Analysis for Mechanical Assemblies:**

**Description :** Tolerance stack up Analysis of Mechanical assemblies for Tejas Series Production Quality improvement.

**Software Used:** CATIA V5 R19

**Role :** Team member

* Identified the two major assembly i.e Wing Nose box assembly and Out Board Slat Assembly
* Identification of typical sections for stack up calculations
* Preliminary Tolerance Stack up calculation by using Worst case method
* Calculation of Tolerance stack up values by using R.S.S method

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bachelor of Mechanical Engineering | Sapthagiri College of Engineering, Bangalore | Visweswarya Technological University | 2009-2012 | 70.66% |
| Diploma in Mechanical Engineering | Shree Vidyadhiraj Polytechnic, Kumta | Department of Technological Education Bangalore | 2006-2009 | 66.88% |
| S.S.L.C | Pragati Vidyalaya Muroor | Karnataka Secondary Education Examination Board | 2003-2004 | 70.40% |

**Educational qualifications:**

**Academic Project (B.E):**

Optimization and Feasibility study of Karanja Oil Methyl Ester (Production and Performance of

Bio - Diesel).

**Personal information:**

**Name :** Sharat Hegde

**Father’s name :** Ramesh Hegde

**Sex :**Male

**Date of Birth :**19.05.1988   
**Nationality :**Indian  
**Permanent Address: #**61 Jogimane keri PostMurur

Taluk Kumta, Dist: Uttar Kannada

Karnataka State - 581 362

**Languages known :** English, Hindi, Kannada.

**Passport Number :P3872326**

**Passport Validity :**31/07/2026

**Declaration:**

I hereby declare that the above mentioned information is true to the best of my knowledge and I bear responsibility for the correctness of the same.

Place: Bangalore

Date:

Signature

(SHARAT HEGDE)

PROFESSIONAL REFERENCE:

* Dr. P Selvaraj

Group Director (CAD/CAM-Prodn)

AERONAUTICAL DEVELOPMENT AGENCY (ADA)

Ph: 9449832736/080-25087072

E-mail: [selva@jetmail.ada.gov.in](mailto:selva@jetmail.ada.gov.in)

* M. Chowdaiah

Scientist 'F'

AERONAUTICAL DEVELOPMENT AGENCY (ADA)

Ph: 9449820796/080-25087151

E-mail: [chowdaiah@jetmail.ada.gov.in](mailto:chowdaiah@jetmail.ada.gov.in)