

## CHANDRA SEKAR K

CAD Engineer

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### **Objective**

To be associated with an organization where I can utilize my skills to gain experience and enhance the growth of the organization and self through continuous learning.

### **Summary**

- A Zealous mechanical design Engineer with 3 years of experience as CAD Engineer for different Components of Cooling system in a passenger car and worked as CAD Designer for the Structural and Exterior Parts of Aircraft Galleys. Good knowledge in CATIA, Proficiency in Unigraphics, Geometric Dimensioning & Tolerancing, Teamcenter and Enovia(PLM Tools).

### **Professional Experience**

Employer	Designation	Duration
Tata Consultancy Services	System Engineer	September 2015- till date

### **Key Skills:**

1. Automotive CAD Engineer for **Cooling System components of Radiator, Condenser, Electric Fan Unit and its surrounding parts like Radiator Deflectors, Coolant Hoses, No Loss Tank and Degassing Tank of a Passenger car.**
2. Basic Knowledge in **DFMEA, DVP and FTA.**
3. CAD Designer for **structures and Exteriors of Aircraft Galleys.**
4. Knowledge in '**Geometrical Dimensioning & Tolerance**' (ASME Y14.5M-2009)
5. Experienced in **3D Modeling, Drafting, Assembly & Detailing.**
6. Good exposure in designing components of **Plastic and Sheet metal.**
7. Reviewing the engineering/design changes & resolving quality related problems associated with design.
8. Experienced in **Product life cycle management.**

### **Software Skills:**

1. Versatile exposure to various modules of CATIA V5 like Part design, Assembly Design, Wireframe and Surface design, generative shape design, Sheet metal, drafting, assembly and Functional Tolerance & Annotation workbenches etc.
2. Proficiency in Unigraphics, Teamcenter and Enovia.

**Project Details:****Organization:** Tata Consultancy Services

<b>Project</b>	Designing and Packaging of Cooling System in a passenger car
<b>Duration</b>	June(2017) – To present
<b>Client</b>	FRANCE AUTOMOTIVE COMPANY
<b>Position</b>	Automotive Design Engineer
<b>Tools</b>	CATIA, Enovia
<b>Project Description</b>	Designing and Packaging Cooling System Components and preparing Drawings for RFQ release and studying their Interfaces and resolving the issues with surrounding parts in a Car.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• CAD Designer for Cooling System (Condenser, Radiator, Electric Fan Unit, No Loss Tank, Degassing Tank and Intercooler) in terms of Packaging and Assembling of Cooling System in Vehicle and checking for Interface Issues, Clashes and solving those issues.</li><li>• Optimized Packaging of Cooling System in terms of maximum Grill Opening which helps in getting the required Air Flow for Condenser and Radiator.</li><li>• Designer for Cooling System plastic and Rubber parts like Radiator Deflectors, Coolant Hoses.</li><li>• Design optimization of Hose Routing and Radiator Deflectors.</li><li>• Frequent interaction with supplier to optimize the proposals of Radiator, Condenser and Electric Fan Unit in terms of Packaging, Cost and Quality.</li><li>• Preparation of Interface sheet, Thermal Analysis, Clash report for the Cooling System Components.</li><li>• Created drawings for parts like Coolant Hoses, Radiator Air Guides for RFQ preliminary release and final release which includes GD&amp;T.</li><li>• Involved in Techno commercial Discussions with Suppliers for Cooling System components.</li><li>• Knowledge on Cooling System DFMEA, DVP and FTA.</li><li>• Involved in APQP of Cooling System.</li><li>• Participated in MULE Vehicle validation of Cooling System like De-aeration Test, Cooling Trail Test, Engine Cooling Performance Test.</li><li>• Involved in preparation of RFQ document for Cooling System components like Coolant Hoses and Radiator Deflectors.</li><li>• Designer of Sheet metal bracket which is used for mounting Cooling System to the BIW (Body in white).</li><li>• Interacted with PLM tool (Enovia) for CAD storage, Data release and for raising engineering change request.</li></ul>

<b>Project</b>	Galley's Structural and Exterior Design support for A350 XWB
<b>Duration</b>	December(2015) – October(2016)
<b>Client</b>	BE AEROSPPACE/AIR BUS
<b>Position</b>	Designer
<b>Tools</b>	CATIA, Teamcenter
<b>Project Description</b>	Designing and packaging of Structural and Exterior parts of Aircraft Galleys, studying the interfaces and resolving the issues related to clash.
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Designer for the structural parts of Aircraft Galley like Structural panels, Blocks used as a mountings point for various parts, Doublers used to strengthen the panels.</li> <li>• Designer for the Exterior parts of Aircraft Galley which includes Decor panels, Decor Trims, Pelmet.</li> <li>• Packaged Exterior parts like Footstep Holder, Compartment Retainer, Cabin Crew seat, Bottle opener, Paper clip.</li> <li>• Studying the interfaces of Structural and Exterior parts and resolving the issues related to clash.</li> <li>• Interacted with Teamcenter (PLM Tool) for CAD Data storage, Release and raising Engineering change request.</li> </ul>

<b>Project</b>	Galley's Structural and Exterior Design changes execution Support A350XWB.
<b>Duration</b>	October(2016) – May(2017)
<b>Client</b>	BE AEROSPPACE/AIR BUS
<b>Position</b>	Designer
<b>Tools</b>	CATIA, Teamcenter.
<b>Project Description</b>	Implementing Design Changes of Structural and Exterior Parts of Aircraft Galley using CATIA V5 and recording those changes through supporting document Engineering Change Notice (ECN) maintained in PLM Software Teamcenter.

<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Creating Problem Report and Engineering Change Notice which addresses the Design change in the Structural and Exterior Parts of Galley based on the inputs received from Client.</li> <li>• Implementing the Design Changes Using CATIAV5. Importing the 3D model in to the PLM software Teamcenter.</li> <li>• Recording the design changes in Engineering Change notice documents which were uploaded in Teamcenter as supporting documents.</li> <li>• Pushing the Parts in Work flow using Teamcenter.</li> <li>• Coordinating with QC team for the inspection of Design changes that have been carried out in the galley and approve it.</li> <li>• Monitoring the deliveries to the onsite (client) on daily basis.</li> <li>• Publishing the Error data metrics from the QC team to the designers on Weekly basis.</li> </ul>
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### **Interpersonal Skill**

- Good Communication skills
- Confident and Determined
- Ability to cope up with different situations

### **Educational Qualification**

<b>Qualification</b>	<b>University /School</b>	<b>Year</b>	<b>Percentage /CGPA</b>
B.Tech (Mechanical)	Jawaharlal Nehru Technological university, Ananthapuramu	2011-2015	<b>73.3 %</b>
Higher Secondary	Sri Chaitanya Jr College , Vijayawada .	2011	<b>93.7%</b>
SSC	P.C.R Government High School, Chittoor	2009	<b>76%</b>

**Personal Details**

Father's Name	: K. Nagaraja Achari
Date of Birth	: 29-Jan-1993
Gender	: Male
Languages Known	: Telugu, Tamil, English & Hindi
Nationality	: Indian

**Declaration:**

I am **K. Chandra Sekar** do hereby declare that information given above is true to the best of my Knowledge

**DATE: 18<sup>th</sup> Nov 2018**

**PLACE: Chennai**

Chandra Sekar K  
**(Signature)**