

SURESHKUMAR MARIMUTHU
CAD/CFD ENGINEER (B.E AERONAUTICAL)



Email Id: Sureshmsk2@gmail.com

Mobile : +918903547271

CAREER OBJECTIVE

Seeking a challenging career in a leading and progressive research organization offering opportunities for utilizing my skills towards the growth of the organization.

PROFESSIONAL BACKGROUND (Total Experience – 3Years 2months.)

- Analyst (CAE), Ford Technology Services India (Satven-Chennai).
March2016-Present (1 year 4months)
- CFD Application Engineer, FlowXplore Pvt Ltd, Coimbatore, India.
May2014-March2016 (1 year 10months)

ROLES & RESPONSIBILITY

- Prepare the geometry (fluid domain) for the given control model by using CATIA V5.
- CAD repair and Fluid domain extraction in ANSA.
- Design a Die for the given component
- 2D & 3D mesh generation for CFD and Structural problems.
- Interact with the clients about the task related queries to resolve the issues.
- Knowledge in solving External aerodynamics, Steady/Un-steady, Single/Multi phase flow, Conjugate Heat transfer, Modeling MRF in ANSYS-Fluent.
- Prepare project reports, proposals, requirements documentation, and presentations.
(Handled an end to end execution on projects).

CAE TOOL KNOWLEDGE

1. CAE ANSA
2. CATIA V5
3. ANSYS – T-GRID
4. ANSYS - FLUENT 15
5. ANSYS – WORKBENCH
6. Star CCM+
7. AutoCAD
8. Teamcenter-Vismockup (PLM-Software)
9. MS-Office (Word, Excel, PowerPoint)

INDUSTRIAL PROJECTS

- 1. Project Title** : HEV-Battery with Exhaust Environment- Thermal study
Role : CAE Engineer
Tools : CATIA, ANSA, Fluent
Scope : To study battery thermal management for the different types of coolant domain designs.
- 2. Project title** : Hybrid Car Cabin-air-environment -Thermal study
Role : CAD Engineer
Tools : CATIA, ANSA
Scope : To build a fluid domain for the given car control model with Battery Compartment and generate the mesh for the entire domain
- 3. Project title** : Simulation of Cavitation on Hydrofoil
Role : CFD Engineer
Tools : ANSA, T-Grid, Fluent
Scope : Cavitation on hydrofoils causing erosion over the surface due to separation. This project is intended to reduce the cavitation bubble.
- 4. Project Title** : Simulation of Flow and Heat transfer in the CTP container
Role : CFD Engineer-trainee,
Tools : ANSA, T-Grid, Fluent
Scope : CTP container consists of electronic panels. We need to reduce the temperature of the panels which emits heat by passing the cold air via A/C duct.
- 5. Project title** : External Aerodynamics study over a car
Role : CFD Engineer
Tools : ANSA, T-Grid, Fluent
Scope : To carry out external flow over a car to find Co-efficient of drag (CD), Flow behavior and pressure distribution on and around the vehicle.
- 6. Project title** : Die design of Battery components for blow moulding
Role : CAD Engineer
Tools : CATIA V5, ANSA
Scope : Model the die design as per the client requirement

ACADEMIC PROJECT

Title : Power Generation by using Blade-tip Magnetization of Jet Engine

Description: This project was dealing with the generation of electric current using magnetic material at the tip of compressor blades and fan blades, coil in the engine cowling and walls of compressor. By this project the size of engine can be get reduced. The generator weight will be reduced in turn increase the efficiency of flight. This reduction in size will reduce the drag produced by profile of engine. Obtained power was quite equals to present generator assembly.

ACADEMIC PROFILE

Name of the course	Discipline/ Specialization	Univ./board of the examination	Name of the institution	Year of passing	Percentage
B.E	Aeronautical Engineering	Anna university Chennai	Hindusthan College Engineering and Technology, Coimbatore, India.	2014	CGPA : 7 70%
HSC	Computer Science + Maths Stream	State Board.	Dalmia Hr.sec school, Dalmiapuram, Trichy, India.	2010	87.58%
Matric	NA	State Board.	Dalmia Hr.sec school, Dalmiapuram, Trichy, India.	2008	93%

CERTIFICATIONS

- ❖ Got **FUNTIONAL EXCELLANCE** reward from **Ford technology services india**
- ❖ Undergone a course on **CATIA V5 Premier** by **EDS Technologies Pvt Ltd.**
- ❖ Done a course on **AUTO-CAD** by **Autodesk.**
- ❖ Participated paper presentation in **ICETET'2014** organized by **NEHRU INSTITUTE OF ENGINEERING & TECHNOLOGY**, Coimbatore.
- ❖ Undergone **Business English Course**(Executive Intermediate) at **British Council**

INDUSTRIAL EXPOSURE

- ❖ Attended Industrial visit in **Cochin Naval Base.**
- ❖ Attended Industrial visit in **TANEJA Aerospace Aviation limited**, Hosur.

PERSONAL PROFILE

- Name : SURESHKUMAR M
- Father's Name :MARIMUTHU R
- Mother's Name :RANI M
- Date of birth : 30.03.1993
- Marital status : Single
- Languages Known : Tamil, English and Telugu
- Nationality : Indian
- Passport Number : L9835028

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge.

SURESHKUMAR M

Place : Chennai, India.

Date: