**A.** **Suresh**

**Career Objective**

Have gained good exposure to understand various aspects of Data Science through the certification, which has developed a great sense of confidence at a very personal level. Hence, I seek a technically challenging position in the area of Data Science, Analytics and advanced Engineering Technology where I can share my skills and expand my professional position using teamwork, automotive knowledge, computer skills, and creative thinking to solve problems related to Product Design & Development.

**Personal Info**

**Address**



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**Date of birth**

16 Jun 1981

**LinkedIn** https://www.linkedin.com/in/anuganti- suresh- 9aa17822



Mar 2015 - present

**Experience**

**Project Lead**

**Semcon India, Deputed to VOLVO BUSES**

**Certificates**

**Master's Program - Data Scientist:**

Simplilearn Certified

• Sub system and component level designing of BIW using CATIA V5.

• Good Knowledge in GD&T, DFMEA, DVP, QDCF.

• Interact with implementation / supplier / CAE group to optimize the BIW design

**Work Description:**

**1.** Solving Project and Factory Protus from Industry.

• Investigation on issue.

• Proposing solution to industry, if required conduct TJR (Trial Job Request) on vehicle.

• Releasing DCN (Design Change Note).

**Education**



2005

**ME: CAD**

**Sathyabama Deemed University, Chennai, Tamil Nadu**

**Percentage:** 78.5%

**2.** Designing of CA (Customer Adaptation) activities.

• Design of BIW concept based on customer requirements.

• Packaging study and Design review with cross functional team.

• Generating 2D drawings for production.

• Line support and implementation with Process Engineer.

• Releasing 3D & 2D in system.

2003

**B.Tech: Mechanical**

**Engineering**

**Sri Venkateswara Engineering College, Chittoor, A.P**

Apr 2010 - Mar 2015

**3.** Cost Ratio

**Manager**

**Daimler India Commercial Vehicle Ltd**

**Percentage:** 66.7%

1998

**INTERMEDIATE**

• Sub system and component level designing of BIW using CAD software like CATIA

V5 & UG NX 9.0.

• Having Work experience in BIW design area, adequate knowledge of Sheet metal process and its assembly Procedures.

• Proficient in BIW design in surface/solid modeling and assembly design using CATIA V5 & UG NX 9.0.

• Having good communication skills and team work to interact with design, test and manufacturing engineers.

• Good Knowledge in GD&T, DFMEA, DVP.

• Interact with implementation / supplier / CAE group to optimize the BIW design

**Sri Venkateswara Jr College, Chittoor, A.P**

**Percentage:** 69.3%

**Skills**



**Software Skills:** CATIA V5/V4, UG NX 9.0, ENOVIA, TEAMCENTRE, SMARAGD, ENGINEERING CLIENT AND KOLA

Nov 2009 - Mar 2010

Jun 2006 - Nov 2009

**CAD Engineer**

**CADMAXX Solutions, Deputed to Mahindra Engineering Service**

**Sr. Design Engineer**

**Infotech Enterprises Ltd**

**Projects**

**Perform a service request data analysis of New York City 311 calls using Python.** Performed data wrangling techniques to understand the pattern in the data and also visualize the major complaint types and provided major insights/patterns.

**Healthcare cost analysis-using R**

Performed analysis on diagnosis-related group that has maximum hospitalization and expenditure, To make sure that there is no malpractice, analyze the severity of the hospital costs by age and gender for the proper allocation of resources, length of stay can be predicted from age, gender, and race.

**California Housing Price Prediction (Using Python and Machine Learning)**

The project aims at building a model of housing prices to predict median house values in California using the provided dataset. This model should learn from the data and be able to predict the median housing price in any district, given all the other metrics. Performing data manipulation on dataset filling missing values, convert categorical data



Modeling, GSD, Assembly, Detailing & Sheet metal workbenches

Sheet metal and Plastic manufacturing processes

Complete product life cycle activities

Automotive BIW and interior exterior plastic design

GD&T, Stack up analysis, QDCF, A3, DFMEA, DVP

into numerical data, Split the data into 80% training dataset and 20% test dataset, Standardize training and test datasets and perform Linear Regression, Decision Tree Regression and Random Forest Regression.

**Sales Performance Analysis using Tableau**

By using Superstore dataset created bullet chart with Category and Segment dimensions and Sales measures, blend the dataset, Color code the chart to identify Categories and Segments that are above or below target, Adding the year of sales to the view to identify trends and outliers, Add a filter so that the user can select one, more than one, or all years &amp; dashboard.

**Market Analysis in Banking Domain using Big data**

The data size is huge and the marketing team has asked to perform the analysis on Give marketing success rate (No. Of people subscribed / total no. of entries), Give marketing failure rate, Give the maximum, mean, and minimum age of the average targeted customer, checking the quality of customers by checking average balance, median balance of customers, if age matters in marketing subscription for deposit, if marital status mattered for a subscription to deposit, if age and marital status together mattered for a subscription to deposit scheme and feature engineering for the bank and find the right age effect on the campaign.

**Healthcare (Capstone Project using Python, Machine Learning and Tableau)**

**Data Exploration** (descriptive analysis, missing values, visualization using histogram, count of outcomes by their value, scatter charts between the pair of variables to understand the relationships, correlation analysis using a heat map. **Data Modeling** (Applying an appropriate classification algorithm to build a model &amp; compare various models with the results from KNN algorithm, Generating a classification report by analyzing sensitivity, specificity, AUC (ROC curve). **Data Reporting** (The dashboard consist of Pie chart to describe the diabetic or non-diabetic population, Scatter charts between relevant variables to analyze the relationships, Histogram or frequency charts to analyze the distribution of the data, Heat map of correlation analysis among the relevant variables, Create bins of these age values: 20-

25, 25-30, 30-35, etc. Analyze different variables for these age brackets using a bubble chart.

**VOLVO BUS**

**Project Name:** Coach and Intercity Buses

**Position:** Designer **Tool :** CATIA V5, KOLA **Projects :**

**1. Factory Protus :** Resolving line issues for running vehicles - B8400 (B7RLE), B9400 (B7R, B8R, B9R & B11Rn

**2. CA (Customer Adaptation) :**

• Sleeper Shell B11R VL13.7 & VL14.5 (HANS & RAKESH SOOD)

• B11R 14.5 Rear Toilet with rear Emergency Door (KSRTC).

• B7R with Middle Door and Middle Toilet (India)

• B8R/B11R with FDSS at front and rear of luggage area and 1/3rd luggage area

(APSRTC).

• B8R / B11R sleeper shell.

• SAFE 2x2 B9R Floor mounted type seat layout.

• AIR INDIA SATS B8400 (B7RLE).

• BMTC B8400 (B7RLE/B8RLE)

• B9R, Converting existing Gang Floor of 2x2 seat layout to Flat Floor of 2x1 seat layout

**DAIMLER**

**Project Name :** LMDT / HDT RHD LHD

**Position :** Manager

**Tool :** CATIA V5, UG NX 9.0, SMARAGD & ENGINEERING CLIENT

**Projects :**

**1. LDT : 914R, 1214R & 1217C RHD (DAY CAB)**

• Design a day cab 914R, 1214R & 1217C due to cab lift

• Single foor converted into Front and Rear Floor

• Side structure & B Pillar grab handle addition

• Rear Structure, Roof and Front Panel modification based on Rough Road.

• Door Inner & Outer panels (RVM / KERB mirror)

• Head Lamp mountings

**2. MDT: 1617R RHD (SLEEPER CAB)**

• Design a sleeper cab 1617R by taking reference from existing day cab design.

• Conducted on field bench-marking for understanding the sleeper cab design, type of material used, storage spaces, utilities & amenities provided in the existing cab designs.

• Front Floor, Middle Floor, Rear Floor, Side & Rear Structure, Roof, Head lamp mounting and Door changes.

• Converting fixed sleeper berth to foldable sleeper berth.

• Cab Tilting mountings design for Sleeper Cabin 1617R.

• 1217C Kerb Mirror mounting design in Front Structure.

• A Pillar trims, Head liner, Side panel and Rear panel trims

**3. LDT / MDT CONVERSION OF RHD INTO LHD**

• Converting all variants from RHD into LHD by symmetry concept for export market.

• Floor communizing for seat mountings, ABC pedals, steering and Gearshift lever.

**4. HDT: 2523R, 2528C, THUNDERBOLT RHD / LHD**

• Converting rear sliding window to fixed window.

• Communizing rear sliding window for HDT & MDT.

• Washer tank design for comfort suspension Thunderbolt deep mining vehicle.

• Door seal and window guide rail localization

**MAHINDRA ENGINEERING SERVICE Project Name :** Migration for MBRDI **Position :** Cad Engineer

**Tool :** CATIA V5

• The inputs are 2D drawings, IGES, STEP, Catia V4 and Contour 3D data are converted into Catia V5 models comprised of BIW, Plastic, Casting, and Forging & Rubber.

• Completely parametric modelling maintaining a dimensional accuracy of about

0.01mm.

• Inspection of modelling methodology according to customer requirements.

**INFOTECH ENTERPRISES LTD**

**Project Name :** ALSTOM Corporation - TGV & VALENCIENNES

**Position :** Senior Design Engineer

**Tool :** CATIA V5/V4

• Create the Sheet metal parts using Sheet Metal Design workbench from the given 2D drawings, read the drawing notes and indication, if required, and implement those in the 3D model.

• Standard DTR part to be created by taking outer dimension.

• Check the Part model against the supplied drawing for validation.

• Assemble the parts with constraints as per the given position dimensions in the drawings.

• Check for clash between parts during assembly.

• Generating Drawings as per standards and specifications..

• Quality checking of solid model to be done by taking sections in CATIA V5 space.

Create drawing views/sections and dimensions, if required, check the geometry against the supplied drawing for validation.

• Quality checking to be done for Drawing with respect to check list, Reference

Drawing and with Q-Checker.

**Projects :**

• Coach window assembly

• Electrical box

• Manufacturing Drawings