

SAI SURESH VETSA

CAE ANALYST - AIRBAG & CRASH

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OBJECTIVE:

Focus on Challenging career in Designing, seeking a quality environment where I can contribute myself and enrich my skills according to the best technology and to work towards achieving organizational goal.

PROFESSIONAL SUMMARY:

- Overall experience of 8 years 1month in Mechanical Domain.
- Having 3 years and 11months of experience in Automotive CAE domain.
- Experience in Model preparation using Ansa, Hypermesh and Primer for crash analysis.
- Experience in cold impact analysis for Front and Rear Fascia.
- Model preparation for IP, Console Assembly's.
- Executed modeling and assembly of Front and Rear doors Closures with all connections.
- BIW meshing and creating bolts, spotwelds using connector/CAD data.
- Good at Airbag folding using Visual Environment (Visual Safe) and J_fold.
- Handle tasks related to Airbag Modeling, Folding and analysis.
- Report making and post processing using Metapost, Hyper works and Animator.
- Understanding the customer request and raising the queries.
- Having JAPANESE NAT LEVEL 4 Certification.
- An effective team player with excellent relationship, management skills and strong analytical, problem solving and Organizational abilities,
- Good communication, interpersonal skills, logical skills and self- motivated to learn and implement.

SKILLS PROFILE:

- ❖ **Preprocessor tools:** ANSA,Hyper mesh, and Primer.
- ❖ **Solver:** LSdyna, Pamcrash
- ❖ **Post processor:** Metapost,Hyper view, Animator
- ❖ **Airbag tools:** Visual Environment(Visual Safe), J_fold.
- ❖ **Scripts:** VBA, Python (Basics for automation)
- ❖ **CAD tools:** CATIA V5,Solid Works and Autocad
- ❖ **Japanese Language:** NAT level 4 Certification

ACADAMIC PROFILE:

S.NO	QUALIFICATION	INSTITUTE	ACADAMIC YEAR	PERCENTAGE / CGPA
1	B.TECH(MECHANICAL ENGINEERING)	BAPATLA ENGINEERING COLLEGE	2015-2018	8.4
2	DIPLOMA	SIR C.R.REDDY POLYTECHNIC	2007-2010	78.96
3	S.S.C	Z P HIGH SCHOOL	2006-2007	79.66

WORK EXPERIENCE:

1. CAE ANALYST

09/04/2019 to Present

Satyam Venture Engineering services

Hyderabad, India

Responsibilities:

- Analyze the input data and raise the queries
- Preparing the Process, schedule & estimation for given input
- Execution of tasks in time and maintaining quality standards.
- Customer interaction for queries confirmation.
- Prepare deliverables and report preparation

1A: Analysis on Exterior and interior

- Analysis of cold impact study on Front and Rear fascia.
- Analysis of IP and console assembly's.
- Drop test on various components.

1B: FE Modeling and Sub Assembly

Description: Meshing of various components of automobile and prepare connections and assemblies.

- Meshing BIW parts and Trims.
- Hex modeling
- Morphing using Hyper morph
- Assign properties and materials as per safety regulations
- Check for intersection and penetration and clear them.
- Connections and contacts as per given guidelines
- Model validation and quality checks.
- Worked on closure assemblies like Doors, Lift gate for crash analysis

1C: Airbag Model Preparation:

Description: Preparation of different airbags from modeling phase to deployment stage.

- Analyzing the CAD data and raise queries
- Preparing the CAD data from the drawings
- Meshing of airbag model and segregation of components
- Stitching of Airbag Model as per the Stitch data
- Folding of airbag as per client requirement folds like thin fold, thick fold, roll fold, tuck fold, zig-zag folds by using **visual safe** and **J_fold**
- Deployment deck setup for airbag model
- Preparation of comparison report for Test Vs CAE

Other Projects:

- Frontal airbag study and correlation (PAB)
- Contact improvement study for Airbag folding using J_fold and Visual safe
- Airbag folding and Deployment setup
- Preparation of line data from deployment airbag model(CAB)

- Model preparation of airbag like SAB,DAB,KAB,CAB,PAB
- Fold pattern study on KAB by applying different fold sequences.

2. Planning Engineer

24/01/2011 to 24/02/2015

Larsen and Toubro Limited

Hyderabad, India

- Ensure full technical understanding and scope definition against contract for planning and scheduling.
- Read scope, develop & implement the work breakdown structure (WBS).
- Preparing schedules for quick reference and finalizing the execution plan in regards to the client milestone dates and requirements.

TRAININGS & ACHIEVEMENTS:

- Trained on CATIA V5, ANSYS course as part of course during Engineering
- Trained on Primavera software
- Certified By JAPANESE NAT LEVEL 4
- Received team of quarter for completing difficult task

PERSONAL DETAILS:

- Date of Birth : 10th January 1992
- Gender : Male
- Marital status : Married
- Languages : English, Telugu, Hindi, Japanese
- Address : Door no: 10-50,old post office street, chagallu (mandal & post)
West Godavari dist., Andhra Pradesh, Pin: 534342
- Passport no : M2595901

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Date: