

## **Sathish Pittala**

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## **Objective**

Seeking a Fulltime CAE Engineer position that utilizes my Finite Element Analysis, Modeling, and Project Management Skills.

## **Summary**

- Over 12 year's professional experience in CAE/FEA with Automotive and Heavy Engineering Domain
- Expertise in performing linear and non-linear static and dynamic FEA simulations
- Strong experience in using Abaqus, Nastran, LS Dyna, Optistruct, Hypermesh, and Hyperview
- Ability to work and communicate with local and global teams by generating the solutions for complex problems
- Synthesizing component, subsystem and full vehicle CAE models for structural, dynamic, durability, fatigue and crash simulation methods
- Worked with Global Engineering (CAE) teams at CATERPILLAR Inc (Peoria, IL) and General Motors (Pontiac, Warren) facilities
- Comfortable with ambiguity and providing design directions quickly with minimum inputs
- Demonstrated interpersonal, troubleshooting, presentation and execution skills
- Competent leadership, team work experience, self-management, strong presentation and communication skills
- Excellent analytical and quantitative skills, results driven and detail oriented
- Stays a breast with new technology and competitive products
- Good understanding of ISO standard testing for the bicycle industry and developing the CAE load cases for the same.

## **Work Experience**

➤ **CAE Engineer** ( Representing Ian martin Ltd)

**Oct 2012 to Present**

**General Motors Canadian Technical Center,  
Oshawa, ON, Canada**

## **Project/Program Responsibilities**

- Conducted and performed a large variety of complex simulations and analysis using computer aided engineering tools
- Used skills to engage in leading-edge automotive technology development and placing the engineering fundamentals into real-world application.
- Performed the structural analysis using CAE tools in the process of developing new vehicle structural products
- Ability to manage multiple projects with quality, meeting the time lines
- Used FEA tools to analyze components, sub-systems and vehicles to requirements, and interacted with the design, program and validation teams to produce designs to meet all requirements
- Developed alternative solutions and recommendations considering target cost, requirements, & other constraints,

- Communicated globally with engineers in a large variety of product development and product modification projects,
- Prepared technical reports of analysis results, interpretations according to the program & related regulations.
- Participated in the Global GM Closure Focus Group, and Modelling Focus Group as the CAE CTC Representative, e.g. developing analysis procedures, along with testing the new process automated tools, etc.
- Handled multi disciplinary projects with different subsystem's e.g. Closures, Exteriors, DEF systems, E-Bike programs and R&D composites team

## Technical & Engineering

- Performed analysis using LS/Dyna, Hyperworks, LSPrePost, Nastran, Optistruct, Ansa, Primer & nCode.
- Conducted & Performed Crash (e.g. Slam, Low and High speed bumper regulatory), Durability/Fatigue, Linear/Nonlinear, & Modal analyses.

### ➤ **Engineer** **JUN 2011 – JULY 2012** **CATERPILLAR ENGINEERING DESIGN CENTER INDIA** **INDIA**

- Perform strength, residual strength, and fatigue analyses of Air system structural components using both computer modeling and analysis methods and classical calculation methods
- Review test results and correlate with analytical models. Evaluate test results that may impact the design or require a design improvement
- Perform work assignments with minimum supervision
- Liaison with Design Engineers to improve the life of Air system Components
- Performed Bolted Joint Analysis, Modal and Frequency Response Analysis on Engine Mounted Components

### ➤ **Senior CAE Engineer** **FEB 2009 – JUN 2011** **General Motors Technical Center India Pvt Ltd** **INDIA**

- Supply structural Analysis support to the design and certification groups based on the provided geometry model.
- Perform Finite Element Analysis and calculations to support any new designs or changes to existing designs and interpret analysis results; select the best solution
- Plan and manage projects, review project-related analysis result to ensure its accuracy, adherence to cost and timelines.
- Maintaining the Project Documents as per ISO standards.

### ➤ **Senior CAE Engineer** **MAR 2008 – FEB 2009** **Mahindra Satyam, Hyderabad, INDIA**

### ➤ **Senior Engineer CAE** **NOV 2005 – MAR 2008** **Wipro Technologies, Hyderabad, INDIA**

- Translating the actual problem into a Finite Element Analysis (FEA) model and interpreting analysis results; selecting the best solution.
- Plan and manage projects, review project-related analysis result to ensure its accuracy, adherence to cost and timelines & maintaining the project documents as per standards
- Perform linear and nonlinear static analysis on powertrain components, Interpret results and convert them to design suggestions.

## Education

<b>MEng. Degree in Mechanical Engineering -</b>	Jawaharlal Nehru Technological University, India.
<b>Graduated in Mechanical Engineering (AMIE) -</b>	Institution of Engineers (India).
<b>Diploma in Automobile Engineering -</b>	Sanjay Gandhi Memorial Polytechnic, India

## Software Skills

**FEA Tools** : Abaqus, Ansys, Nastran, LS-Dyna, ncode, Hypermesh, Hyperview, ANSA  
**Solid Modeling /CAD** : CATIA V5, AutoCAD, Unigraphics-Nx.  
**PLM** : Team center Engineering.  
**Microsoft office Tools** : MS Word, Excel, and PowerPoint.  
**Operating Systems** : Windows, UNIX

## Professional Memberships

- Associate Member of Institution of Engineers (India)
- Member Society of Automotive Engineers (SAE)