**Aaditi Manjul**

G10, Block A, #43, Bloomfields, Ramagondanahalli, Whitefield, Bengaluru, 560066

E-mail: [aaditimanjul@yahoo.com](mailto:aaditimanjul@yahoo.com) , Contact no. +91 7588283322

**Profile summary:**

* CAE structural engineer with experience in product development for various automotive subsystems.
* M.Tech in CAD/CAM engineering
* Well acquainted with various CAE pre and post processing tools and automation
* Previous experience purchasing of accessories and spare parts in Automotive industry.

**Skills:**

* Preprocessors: ANSA, Hypermesh
* Solvers: Nastran, Optistruct, Nastran, Abaqus, FEMFAT, Dyna
* Postprocessors: Hyperview, Metapost
* CAE Automation: Python, VBA
* CAD: CATIA, Creo
* MS Excel, Powerpoint
* C programming

**Industrial Experience:**

**Organization: Vehma Engineering Solutions India Pvt Ltd (Sept’2020 to Present)**

Designation: Structural Engineer

**Organization: Sri Beteraya Pvt Ltd deputed at Vehma Engineering Solutions India Pvt Ltd (July’2018 to Aug’2020)**

Designation: Jr. Structural Engineer (July’2018 to Aug’ 2020)

Trainee Engineer (Oct’2017 to June’2018)

**Roles and responsibilities:**

* Independently work on assigned projects, provide necessary CAE inputs and reports during the product development process at various levels. Understand the performance requirements from SOR and setup the analysis accordingly. Understand the loadcases and product behavior, suggest design improvements, etc.
* Carry out Topology, gauge optimization, stiffness, stress/ strength, modal, fatigue analysis for subframes, various links. Knuckles, twist beam, etc.,
* Performed NVH, side crash and frontal crash analysis for IP Beam. Performed weight optimization and weld reduction study.
* Performed stiffness, strength, denting, oil canning, coupled thermomechanical analysis for automotive closures.
* Support meshing activities as required. Well acquainted with meshing of sheet-metal and casting components using shell, tetra, hexa elements.
* Basic crash analysis using Abaqus and LSDyna.
* Basic fatigue analysis using FEMFAT and Ncode.

**Organization: General Motors India Pvt. Ltd., Pune and Bangalore**

Designation: Assistant Manager- Buyer (Purchasing and supply chain)

Duration: 2 years 11 months (Aug'2012 to Jun’2015)

**Roles & Responsibilities:**

* Coordinate with engineering team and suppliers in design and development of genuine accessories. Participate in concept finalization, strategy planning and design reviews for accessories for new launch vehicles.
* Lead VA/VE and cost reduction initiatives in spares and accessories.
* Conduct market study, benchmarking analysis, identify and develop new vendors to achieve cost and time targets.
* Budget data analysis using excel and assist in developing future strategies for after-sales purchasing.

**Academic projects:**

**Organization: Vehma Engineering Solutions India Pvt. Ltd.**

Designation: Intern

Project objective: Study the effect of various geometric parameters on the performance of the Rear Twist Beam (RTB).

Duration**:** 1 year 3 months (Jun'2016 to Sept'2017)

**Roles and responsibilities:**

* Study and analyze effects of different cross-section shapes and the beam geometry on static stiffness and durability performance of the rear twist beam.
* CAD modeling and FE analysis of RTB designs with different effective lengths and cross-sections and analyze the result data.
* Modify the base design to improve performance and to achieve mass reduction.

**Organization: ECHJAY Industries**

Designation: Project trainee

Project objective: Design & manufacturing of automated filtering system to recirculate coolant & increase efficiency of operation for a tool grinding machine.

Duration**:** 1 year (May'2011 to Apr'2012)

**Roles and responsibilities:**

* Design a system to automatically replace the filter paper using chain drive and conveyor.
* Planning and supervision of fabrication process.

**Academic Credentials:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Board/University** | **Marks/ Grades** | **Year Of Passing** |
| M.Tech (CAD/CAM) | Nirma University, Ahmedabad | CPI 8.4 | 2017 |
| B.Tech. (Production) | University Of Pune | CPI 8.79 | 2012 |
| HSC | Maharashtra Board | 82.33% | 2008 |
| SSC | Maharashtra Board | 86% | 2006 |

**Languages Known:**

* Good proficiency in Marathi, Hindi, English