**RESUME**

PRAVEEN KUMAR REDDY DODDA

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**Objective:-**

To prove myself dedicated and worthy in a progressive organization that gives me scope to apply my knowledge, skills to be a member of a team which dynamically works towards success and growth of the organization.

**Project Summary:**

* **Project Trainee in ARAI (SDL Department):**

Development of mathematical model and structural performance characterization of ladder frame chassis.

**Description:** The project mainly deals with the static structural analysis of ladder chassis. The main objective of this chassis is to find out the stresses, strains and maximum deflections along with the natural frequencies in free-free conditions before designing the actual components. The mathematical model was developed by using matrix method (FEA). Converted the mathematical model to MATLAB code. Compare these results with HYPERMESH analysis.

* **Performance and Emission characteristics of an MPFI engine by increasing the Oxygen percentage**

**Description**: The objective of this project is to increase the oxygen percentage in the cylinder. The complete combustion will takes place and also reduces the emissions of HC and CO. the maximum power will be developed.

* **Performance and emission analysis of SI engine fueled with syngas**

**Description:** The objective of this project is to analyze the emissions and performance with the alternative fuels of syngas. Compare these results with the conventional petrol fuel.

* **Castor oil is an alternative fuel for diesel engine**

**Description:** To find out whether the castor oil is suitable for diesel engine and compare those performance and emission results with the basic diesel fuel

* **Mini Projects: Aero dynamic effect of ground clearance and rare spoiler on SVU**

**Skill Set**:-

Software Skills : Basic knowledge in PRO-E, ANSYS, CATIA ,HYPERMESH,MATLAB Software

Interpersonal Skills : Punctual, Adaptable, leadership, Hardworking

**Area of Interest:-**

* Power train
* Engine emissions
* Structural CAE
* Strength of materials
* Thermal engineering

**Educational Qualification:**

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| --- | --- | --- | --- | --- | --- | --- |
| **Education** | **Degree/ Semester** | **Institute** | **Board/ University** | **Year** | **Marks/ SGPA** | **Aggregate** |
| SSC & INTERMEDIATE | 10th | SHOGHI High school | Board of secondary Education | 2007 | 83.83% | 83.83% |
| 12th | NARAYANA Junior College | Board of Intermediate education | 2009 | 88.9% | 88.9% |
| B. Tech (Mechanical Engineering) | 1st Year | RVR & JC College of Engineering & Technology | Acharya Nagarjuna University | 2010 | 77.18% | 75.7% |
| Sem-3 | 2010 | 76.88% |
| Sem-4 | 2011 | 77.64% |
| Sem-5 | 2011 | 70.18% |
| Sem-6 | 2012 | 73.09% |
| Sem-7 | 2012 | 74.96% |
| Sem-8 | 2013 | 79.63% |
| M. Tech (Automotive Engineering) | Sem-1 | VIT University | VIT University | 2014 | 7.88 | 8.1\* |
| Sem-2 | 2015 | 8.63 |
| Sem-3 | 2015 | 8 |
| Sem-4 | 2016 | 8 |

**Competitive exam achievements**:

|  |  |  |
| --- | --- | --- |
| GATE | 3796(RANK) | Nationwide Engineering Entrance test for Master’s degree |
| VITMEE | 44(RANK) | Nationwide Engineering Entrance test for VIT Master’s |
| APPGECET | 21(RANK) | Statewide Engineering Entrance test for Master’s degree |

**Training/ Workshop Attended**:-

* Proficiency Improvement Program on “Automotive Engineering”, “Power train Engineering & induction program” held at ARAI, Pune.
* Participated at zonal rounds of “Roboepic-2011”during a national level robotics championship organized by IIT-Hyderabad.
* Participated in “Super kidz contest 2004” held by Nalanda educational institute.
* Participated in “Silver jubilee technofest” organized by RVR&JC College of engineering.

**Papers presented:-**

* Presented a paper entitled “Performance and emission characteristics of an MPFI petrol engine by enriching the oxygen and nitrogen” at the 9th International Conference on Science, Engineering and Technology, organized by VIT University, Vellore.
* Presented a paper on “Performance and emission analysis of SI engine fueled with syngas” conducted by VIT University, Vellore.

**Achievements & Extra Curricular Activities:-**

* Secured First prize in Rugged Rover conducted by RVR&JC college of Engineering.
* Committee member in ARAI Academy conducting group discussion.
* Organizing technical events in college level.
* Active member of SAE (Society of Automotive Engineers).
* Organizing functional events and conducted game events in ARAI

**Personal Information:-**

Hobbies : Home interior decoration, Travelling, Browsing Net.

Date of Birth : 19th Nov, 1991.vijayawada

Languages known : English, Hindi, Telugu.

Nationality : Indian.

Strengths : Consistency, Dedication and Positive Thinking.

**Declaration:-**

I hereby declare that the information provided is true to the best of my knowledge. And if you find any of above details wrong then you can reject me without mercy.

Date:

Place: signature: