**Tadikonda Vishnu Vardhan**

**PROFILE**

A young, aspiring and determined to be mechanical engineer, looking to work with an organization with a healthy, holistic and challenging work environment, seeking for personal growth along with organization growth.

**EDUCATION**

* **B.Tech Mechanical Engineering**

**CGPA – 8.05 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 94% **2019**

Institution:

* **Class 10** – 96.6% **2017**

Institution:

**TECHNICAL INTERESTS**

Additive manufacturing, Lean Manufacturing

**PROJECTS**

**“HIGH-SPEED ENGINE EXHAUST VALVE LIFT MEASUREMENT On H6-4 VALVE ENGINE WITH ENGINE BRAKE SYSTEM(EBS)”**   
· Duration/Period: 13-06-2022 to 10-07-2022   
· Objective: To verify the actual valve lift of the exhaust valve against theoretical data for a H6 -4V EBS engine.

· Tools or technique used: The tool used is Indi-set in which we measure the valve lift measurement using LVDT sensor.

· Outcome:

|  |  |
| --- | --- |
| • •  • | There is no valve jump in exhaust valves as observed up to 2400rpm.  At 3000rpm and above the valve lift valve observed to increase (with a reference of 1000rpm lift) indicating an unstable valve train behavior.  So due to these variations in the exhaust valve lift many new vibrations and noises are going to begin |

which may lead to failure of the engine.

|  |  |
| --- | --- |
| • | So, to avoid this a physical change is need be to done on the valve bridge to meet the theoretical values of the crank angle and valve lift. |

**Cost and risk optimization of a four-echelon supply chain**

Objective:

 To minimize the transportation cost by selecting the shortest route to distribute the product.  To minimize the total supply chain risks.

 To minimize the emission cost.

Tools are techniques used: MATLAB, Genetic algorithm

**TECHNICAL SKILLS**

C, MATLAB, Ansys, Inventor, Solid works.

**INTERNSHIP**

**ASHOK LEYALAND**· Duration/Period: 13-06-2022 to 10-07-2022   
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· Outcome: There is no valve jump in exhaust valves as observed up to 2400rpm.

· At 3000rpm and above the valve lift valve observed to increase (with a reference of 1000rpm lift) indicating an unstable valve train behavior.

· So due to these variations in the exhaust valve lift many new vibrations and noises are going to begin which may lead to failure of the engine.

· So, to avoid this a physical change is need be to done on the valve bridge to meet the theoretical values of the crank angle and valve lift.

**LANGUAGES**

English, Telugu, Hindi