

## **Project Diary**

September

Week 1 – Title Selected on the topic of Lower Control Arm.

Week 2 – Research done on the selected topic.

Week 3 – Searching and studying various research papers on the topic.

Week 4 – Market Research to find the required Lower Control Arm.

Week 5 – Market Survey and Purchasing of the Lower Control Arm.

October –

Week 6 – Inspecting and finding out the required dimensions of the Lower Control Arm.

Week 7 – Taking out the measurements with the required tools and equipment.

Week 8 – Prepared Draft for the Lower Control Arm.

Week 9 – Started to prepare 3D Model of Lower Control Arm on Catia

Week 10 – Completed preparing model on Catia and Solidworks.

November – Ansys 1

Week 11 – Started to prepare Ansys on the Lower Control Arm.

Week 12 – Learnt how to prepare a Ansys analysis.

Week 13 – Solved the problems regarding model in Ansys.

Week 14 – Started applying conditions on the model.

Week 15 – Prepared Ansys for the existing component.

December – UTM 1

Week 16 – Searched for a Universal Testing Machine and its equipment in nearby location.

Week 17 – Found a Universal Testing Machine and inspected how to mount the Lower Control Arm.

Week 18 – Started preparing a mount on the Lower Control Arm.

Week 19 – Prepared the mounting for the Lower Control Arm.

Week 20 – Testing done on the Universal Testing Machine.

January – Ansys 2

Week 21 – Evaluated the results on the existing component.

Week 22 – Started applying condition on existing component in Ansys.

Week 23 – Applied the conditions on the existing component.

Week 24 – Evaluated the results for the weight reduction.

Week 25 – Prepared the dimensions and the CAD for optimized component.

February – Fabrication

Week 26 – Market Research to find the required fabricator.

Week 27 – Taking out the dimensions on the model.

Week 28 – Preparing slot on the model.

Week 29 – Drilling the required hole on the prepared dimension on the model.

Week 30 – Finishing on the work done on the model.

March – UTM 2

Week 31 – Started preparing a mount on the Lower Control Arm.

Week 32 – Prepared the mounting for the Lower Control Arm.

Week 33 – Testing done on the Universal Testing Machine.

Week 34 – Started preparing the report with the results.

Week 35 – Prepared the report on the results.

April - Report

Week 36 – Started preparing the report on entire project.

Week 37 – Collecting the required data for the report.

Week 38 – Prepared the report on the data collected.

Week 39 – Corrections done on the report.

Week 40 - Prepared the final report.

