sectional area to 2.284 m<sup>2</sup>. Finally, any edges were chamfered just to faintly help the flow of weight of the car. The top width of the car was also lightly reduced, decreasing the crossunderneath the car. The tyres are larger than the initial design to compensate the additional new fenders. However, the new fenders due help with parting the air flow in a smooth manner the car is 4.01 m. There are some little changes done to help the redesign such as creating the changes performed to it compromised the capacity of the car, therefore the new length of back of the car and fewer eddies are visible in figure 7. The car had to be made longer because minimises the separation of flow seen in figure 7. Turbulent flow is almost eliminated at the

redesign achieved a lift of 175.2 N. There is an 8.94% reduction, this provides downwards improved the initial design. In addition, the initial design had a lift of 192.4 M, where the design is 0.685. There is 13.8% reduction of the Cp, meaning that the redesign has effective this value and the new value of the cross-sectional area of the redesign the Cp for the new condition used on the initial design. The new force acting on the redesign was 341.2 M, using A CFD simulation was performed on the redesign using the same quality mesh and boundary

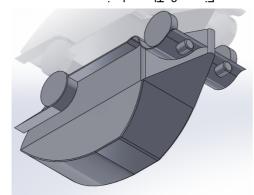


Figure 6. The redesign

car is also a factor why the drag was only slightly of the car. The slight decrease to the width of the increasing the length which increases the weight a significant reduction; this may be due to making it easier to handle car [5]. Still, there is not force which gives the car more traction control

air.

the results show that the use of aerodynamic design has reduced the model's coefficient of length of the car. Based on the CFD analysis, performed on the initial design and the redesign future is an increase to the area of the car and more aerodynamic designs to compensate the improved. So, further improvement that could be done ŧре

drag, making the redesign an excellent recommendation to replace the model T.