




Individual Project Meeting Record

Project Title	Design and manufacture of an aerodynamic undertray for Formula Student		
Supervisor	Dr Rob Watson	Student	Dennise Zefanya Tohpati
Date and time	MEETING 18 – 3rd March 2021	Location	MS TEAM [ONLINE]
<p><u>Review of actions from previous meeting</u></p> <ul style="list-style-type: none">• Visualisation of 3D Undertray design has been conducted, this includes pressure, velocity, wall shear contour on the body, and accompanied also with L2-Lambda-criterion .• 8 Undertray design have been design and analysed with the bluff body, which then the results are documented and analysed further on the report.• First draft of the final report has been started and on progress. <p><u>Discussion, decisions, assignments</u></p> <ul style="list-style-type: none">• Discussed on how the L2-Lambda-criterion shows the formation of boundary layer on the body and vortex formation due to the diffuser and the bluff body. Supervisor recommended to make a contour scene which shows both the wall shear stress on the surface of the body with the velocity contour on the iso-surface of the L2_lambda-criterion.• The visualistaion above will be used to identify the vortex formation from the diffuser, and how it affects the flow attachment as well the adverse pressure location.• Final Report discussion: focus on the story and put more figures on the appendices hence more discussion and concepts can be elaborated.• There are number of variables and complex flow on the undertray, supervisor suggested to take only couple key important concept to be told in the report. <p><u>Agreed actions and completion dates</u></p> <ul style="list-style-type: none">• Capture the best settings of L2-lambda-criterion and wall fluxes to identify the low pressure gradient where separation may occur and low pressure gradient formed.• Continue on the final report writing.			
Date and time of next meeting	Friday 12 th March 2021	Location of next meeting	MS TEAM [ONLINE]
Supervisor signature		Student signature	Dennise Tohpati