QUEEN'S UNIVERSITY BELFAST | SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING

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 12 – 18th December 2020**	Location	**MS TEAM [ONLINE]**

Review of actions from previous meeting

- 2D-openflow with exact 3D cross-section dimensions with various inlet and outlet angle analyses has been computed and analysed.

Discussion, decisions, assignments

- Discussed regarding convergence of the analyses using ANSYS Fluent. With y+ value > 30 and < 1000, it was suggested that the standard k-epsilon with scalable wall function is used for initial calculation which then will be continued using k-w SST which improve the flow accuracy around the boundary layer.
- Discussed the plan for Christmas break and final report: formatting, submission, etc.

Agreed actions and completion dates

- Continue on 3D open flow analyses and investigate the cause of failure in convergence on the analyses. Analyse the results for various inlet and outlet variables and compare it with all previous analyses.
- Continue the CFD analysis on 3D undertray with the bluff body.
- Submit the preliminary final report to be reviewed by supervisor.

Date and time of next meeting	Friday 15th January 2020	Location of next meeting	**MS TEAM [ONLINE]**
Supervisor signature		Student signature	**Dennise Tohpati**