Abstract

The following project is related to automotive aerodynamics and is specially focused on decreasing drag and improving downforce for a track day sports car.

Aerodynamics is a partial segment of the much larger subject of fluid dynamics and it deals with air also technically known as a gaseous fluid. According to fluid dynamics aerodynamics play a major role in a vehicles overall performance. After the finding of aerodynamics in history there was a significant role that aerodynamics played in designing a vehicle.

The following design was specifically designed for an all-electric track day car. So the presence of aerodynamic related improvements is highly regarded in the designing due to one being a sport car, improved downforce is required to improve the handling of the car and the other reason being an all-electric car battery efficiency is a fact that is taken into consideration, improving efficiency can be archived by decreasing the aerodynamic drag of the overall vehicle