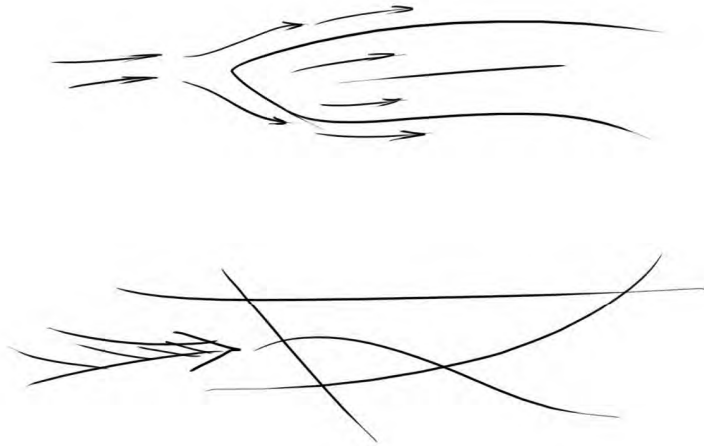


Implement Evaluate



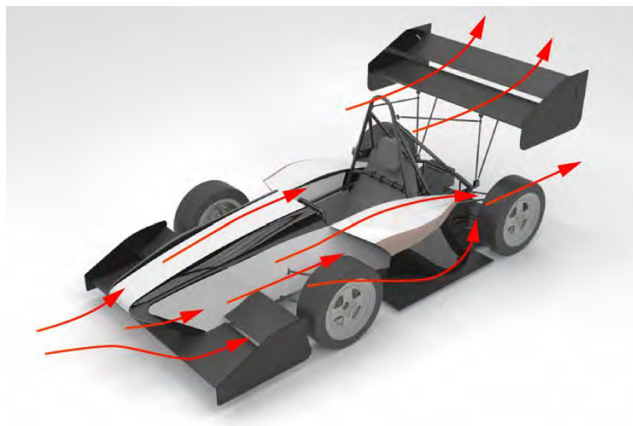
Nose:
Less Drag

Sidepod:
Steer Air Flow

Consideration

Sidepod's internal space is a narrow-wide-narrow construction, and that help cooling system work well and air current exhausts rapidly.

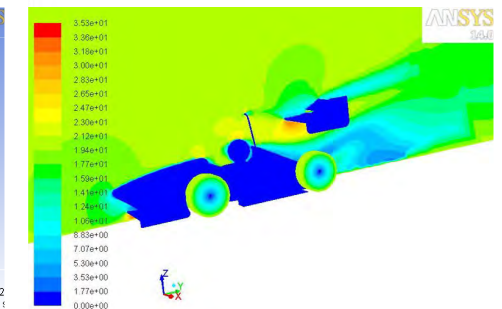
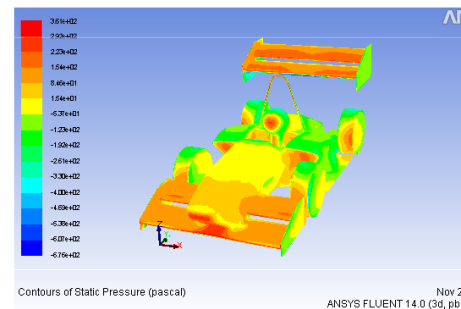
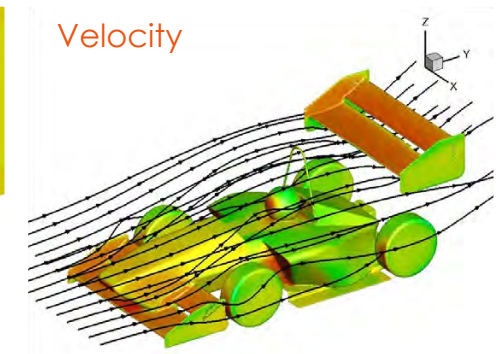
Sidepods' winding external surfaces steer the flowing air and neat airflow decrease drag; plain fused blended surfaces decrease the lift and make car stable.



Computational Fluid Dynamics

ANSYS Fluent were used to help us.

We simulated and tested, then compared the rough data. By analyzing those simulating results, we finally chose an effective aerofoil profile, wings' angle and position. It can also evaluate the design of bodywork.



Conclusion

We've tried many possibilities and this is a part of data. The results showed that the rear wings created strong downforce and that's our very goal.

However, the head of body created extra drag and the rear created some slight lift. We still need to refine and evaluate.