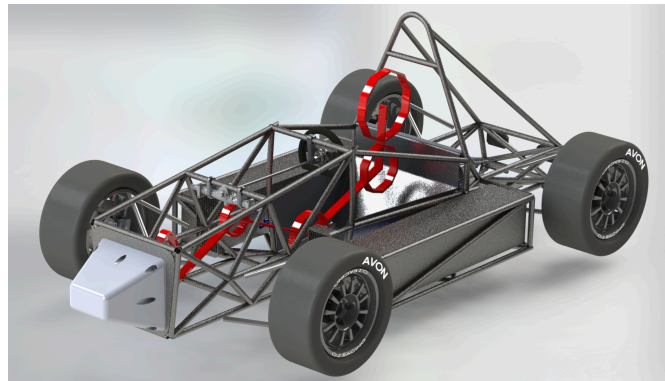


AERODYNAMIC DESIGN REAR WING



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Abstract

Race cars wooo! Formula studee3333nt

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Introduction

Drag, lift and side force. Those are the three cornerstones to vehicle aerodynamics, which dictate how a car acts. Inverted wings serves as perfect agents to create negative lift, also known as downforce.

- Initial thought would be to reduce drag in order for the car to move as smoothly as possible. [1]
- Downforce increases tires' cornering and acceleration abilities. Higher downforce gives better grip.
- Downforce is like having extra weight pressing down on the wheels without the extra weight penalty. The Hannah Montana deal.

2

Theory

3

Simulation

4

Experiment

5

Discussion

6

Conclusion

Perspective

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