

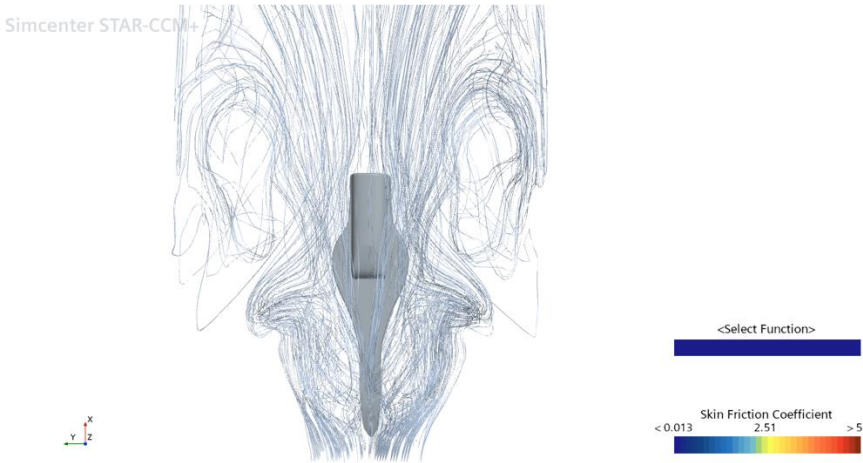
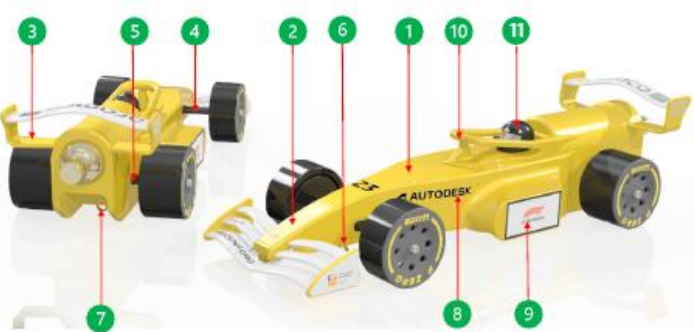
Miniature Formula One Car Design

Research Project

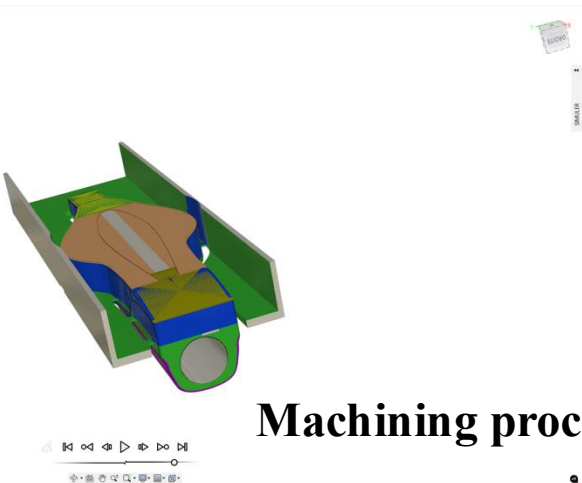
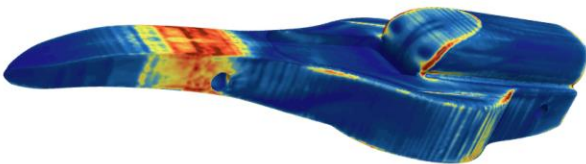
Objective :
Design and manufacture a miniature Formula 1 car that meets the specifications of the F1 in Schools competition and is optimized to win a 20-meter race.

- Designed the car entirely in CAD using Fusion 360, from concept to final version.
- Conducted aerodynamic simulations with Star-CCM+ to minimize drag.
- 3D printed prototypes to validate dimensions and refine design.
- Machined the final car body in high-density foam to meet competition constraints.
- Ensured compliance with all technical regulations at every stage of development.

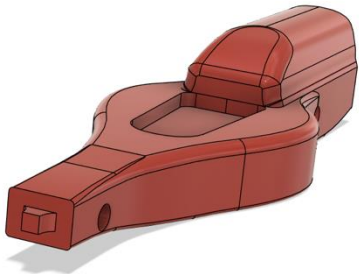
Target Vehicle for CAD Modeling



Fluid analysis



Machining process



CAD modeling