IPG Automotive's

Lap Time Simulation

Virtual Competition

All Formula Student Team Classes Welcome!

Optimise Using CarMaker Simulation!

Solutions for virtual test driving

Submit your vehicle for final submission by Friday 19th June 2022

Non Geometric Data (NGD)

An online database where all virtual vehicle data can be stored and easily viewed by each team member.

Virtual Prototype Manager (VPM)

Your virtual vehicle garage where you can build (using data from NGD) and store as many vehicle versions & variations as you like!

ipg-automotive.com

Quick Start Guide:

1. Familiarise yourself with the competition rules!

2. Register your team for the IPG Automotive Formula CarMaker program

3. Request your 2 free CarMaker licences

4. Download Formula CarMaker Package

5. Open the Package and load the FCM_Projects/FS_LTS folder in CarMaker 10.2.1. This is where you'll find all the test runs for the competition

6. Now, it's time to create your winning vehicle, to do that start by creating an IPG Webtools account

7. In VPM build a vehicle and download it

8. Unzip your vehicle and copy the contents of the VehicleFiles into your CarMaker project

9. You are now ready to start developing and running your vehicle!

10. As you identify new optimal setups using CarMaker - upload the new data parameters e.g. spring stiffness to your team's NGD

11. Easily build new vehicles with the data uploaded in NGD using VPM

For a more detailed guide:

- *Download the 'LTS Documentation' and 'Submission Guidelines' from the sidebar in NGD or VPM for a detailed explanation of how to:*
  - ○ *Use the Web Apps for the competition*
  - ○ *Submit your final vehicle*
- *Optimise your virtual race driver to your vehicle*