Real Case Scenario

An amusement park chain (Journey land) have seen your car in the FSAE competition and they liked it very much. They have decided to use it in their main attraction, the BIG MOUNTAIN ROLLERCOASTER!

You’re required to supply 100 modified cars to fit with the rollercoaster.

Journeyland technicians already studied the installation and they will connect their adapter directly to the wheels’ hubs.

They also require you:

- To remove the unnecessary parts (the parts that you consider unnecessary for the use in the rollercoaster)
- To lower the center of gravity of your car round 8% to resist properly to the G force during the use on the rollercoaster
- Due to weight issues, no ballast is possible to lower it

So you have to provide:

- the concept of your new car
- the list of unnecessary parts (ignore fasteners)
- the list of new or modified parts
- the modified costs for Steering and Brakes - if possible, use your CEF as a reference
- the estimation of design and development costs of the car ready for the delivery (ex works) to Journeyland - if possible, use your CEF as a reference