Body design for electric 3-wheeler

OMotion is located outside of Lund. We have developed a 3-wheel electric car called OMOTION 2. It has two wheels in the front and one in the back. The top speed is 110 km/h and the range 150 km.

We are now working on an updated model with greatly improved performance. This will imply changes to battery, motor, seats, tires. It will also require changes to the vehicle body and cockpit interior, which is the topic for this Master´s thesis.

The aim is to design a body for the new vehicle. Basis for the work should be a study of the intended customer and it´s requirements. Based on this a design will be made which is:

- Appealing
- Functional
- Possible to manufacture.

A 3D model of the vehicle frame and other components exists in Solidworks. Hence it is a merit to have experience from Solidworks. Furthermore, since the new vehicle will be considerably fast, basic knowledge of aerodynamics is a merit.