

SUMMARY

The purpose of this thesis was to design, create and manufacture a motorized garden truck that meets the following specifications:

- Movement Speed: 6-8 km / h
- Net transfer load: 150 kg
- Total weight of the vehicle with a net weight: 250 kg
- Manual motion control
- Construction cost \approx 300 €

Initially we had several original ideas, after the evaluation of our ideas and the final choice of design for our project we calculated the dimensions of the components and started designing in SOLIDWORKS where made designs and various simulations. The final stage was the research to find the various components, buy the components and the construct the truck.