# FINAL EXAMINATION PROJECT

## Documentation

<table>
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<td>Topic</td>
<td>Forklift truck bucket with hydraulic control</td>
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<td>Co-operation partners</td>
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## Assignment of tasks

Design, manufacture and installation of a forklift truck bucket with hydraulic control

## Realization

The task of the project was to produce a forklift truck bucket truck with a hydraulic cylinder. The forklift truck bucket should be able to transport gravel, sand, or snow.

**Construction:**
- All components were designed with a 3D program.
- The bucket was designed with scraper bars and reinforced with steel strips.
- The forklift truck bucket was connected to the hydraulic control of the truck.
- The cylinder has a lifting capacity of ca. 4 kN at 200 bar.
- The guiding of the forklift was provided by pockets with fixation.

## Results

The newly designed and manufactured forklift truck bucket was partly tested in the workshop for functionality. Afterwards, the forklift truck bucket was mounted on the truck. The guiding of the forklift was tested too. The cylinder was connected to the hydraulic unit and also checked. The field test was successful.

For the final paper, a complete documentation with drawings on design and manufacturing of the forklift truck bucket was drawn up.
Illustrative graph, photo (incl. explanation)

Forklift truck bucket

Forklift truck bucket with hydraulic cylinder

Participation in competitions
Awards
None

Accessibility of diploma thesis
Technical College of Machine and Systems Engineering, Mödling

Approval
27 May 2013

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