**Assignment 3: Lay down requirements, design and build a manual control for a container crane**

**Stage 1:** Briefly but accurately lay down the requirements by interviewing the instructor in his role as customer. Requirements should be structured as points and subpoints (indication 1-3 A4 sheets). Show to instructor for approval.

**Stage 2:** From the requirements draw up sequence diagrams showing all relevant events in picking up, moving and putting down a container, incl. spreader shift and twistlock operation. Show to instructor for approval.

**Stage 3:** From the requirements design and build 2 modules

1. Manual control
2. Physics simulation

Configure a timing diagram showing at least the complete physical status. Show to instructor for approval.

*Points: 1 for free, 2 for stage 1, 3 for stage 2, 4 for stage 3, 2 bonus for visualizing all physics items (to be explained). Max total points 10, unused bonus is valid for other assignment. Note: Visualization is quite a lot of work here, so only add it if you have time to spare.*