# Report

Elevator experiment

## General information

1.1 Registration number

1.2 Last name, First name

1.3 Test bench                                Elevator

## Controller

| Parameter | Controller with overshoot | Controller without overshoot | Best set of parameters |
|---|---|---|---|
| Proportional gain | | | |
| Integral gain | | | |
| Step time, ms | | | |
| Overshoot, Hz | | | |
| Settling time, ms | | | |
| Halt time, ms | | | |

2.1 Which differences were you able to see between the controller parametrizations?

Fig. 1. Controller with overshoot

Fig. 2. Controller without overshoot

Fig. 3. Best fit

| Ramp | | | |
| --- | --- | --- | --- |
| Parameter | Linear | S-Ramp | U-ramp |
| ACC, s | | | |
| DEC, s | | | |
| Step time, ms | | | |
| Overshoot, Hz | | | |
| Settling time, ms | | | |
| Halt time, ms | | | |

3.1 Which differences were you able to see between the ramp parametrisations? Which [Ramp Type] RPT do you think is the best fit for Passenger elevator applications?

Fig. 4. Linear ramp

Fig. 5. S-ramp

Fig. 6. U-ramp

## General data

4.1 Date

4.2 Key