

## Week 5

Lecture 9: Other actuators

Location: K1/213

Pneumatics, piezoelectric actuators, voice coils, microelectromechanical actuators etc.

Lecture 9 - recording

Lecture 10: Microcontrollers

Location: K1/216

Microcontrollers: the basic building blocks of embedded systems. Peripherals, programming and applications. Visiting lecturer Tuomas Tiainen.

Lecture 10 recording

Lecture 10 recording - 2023

There was again some problem with the recording. Here is the recording from 2023.

## Exercise 5: Stepper motors and hydraulic systems (DL. 26.11. at 10:00 am)

5.1 Stepper vs. Servo - 4 points

5.2 Stepper motors - 5 points

5.3 Hydraulic systems - 6 points

Analysing a hydraulic lifting system.

5.4 Hydraulic servomotor with Simulink - 10 points

Solutions for exercise round 5

Feedback round 5 - 1 point

By answering this feedback questionnaire, you get one credit. Questionnaire will be closed before the exam.



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