

# Electronics II

## Exercise 10

Deadline Wed 4.2.2018 12:00

1. Make an “ultrasonic radar”. Mount the ultrasonic distance sensor on the servo, make it rotate and measure the distance in each direction (one degree intervals). Write a script on your PC which reads the data from Arduino and plots it on a polar plot in real time. (3p)
2. Extract pitch, yaw and roll data from the gyroscope and make a 3D object follow the orientation of the gyroscope on your computer screen. (3p)

Note: there exists Processing sketches for both of these tasks but use a programming language you’re using with your everyday data analysis (Python, Matlab etc.).