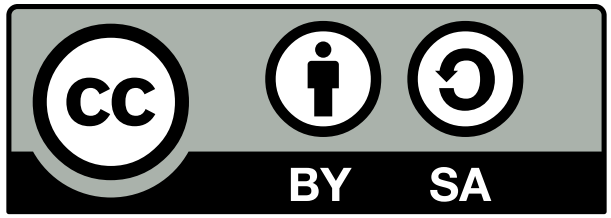


ROBOTICS WITH PLYMOUTH UNIVERSITY

ROCO318
Mobile and Humanoid Robots
Practical 1 – Sensors Projects

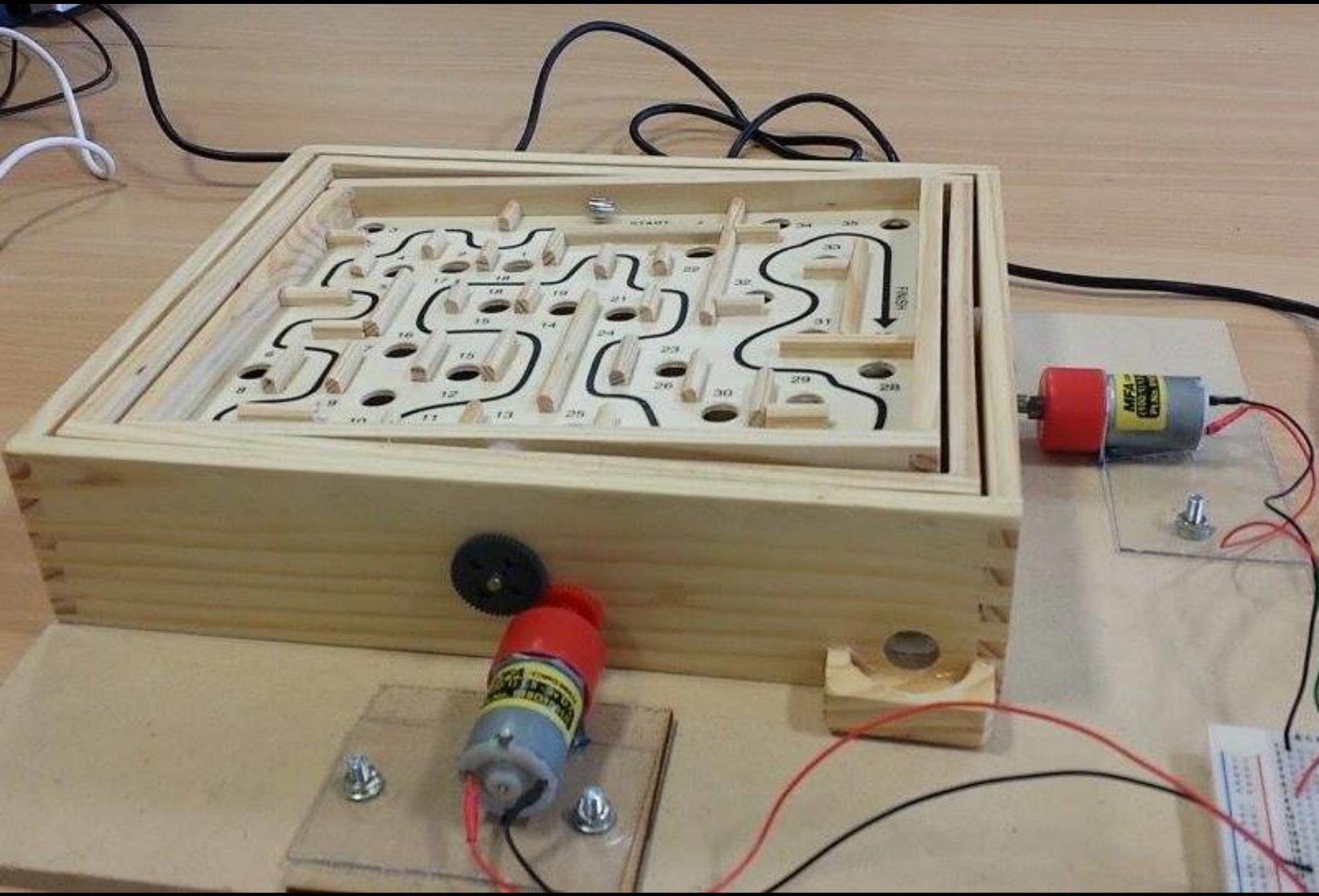
Tony Belpaeme and Séverin Lemaignan

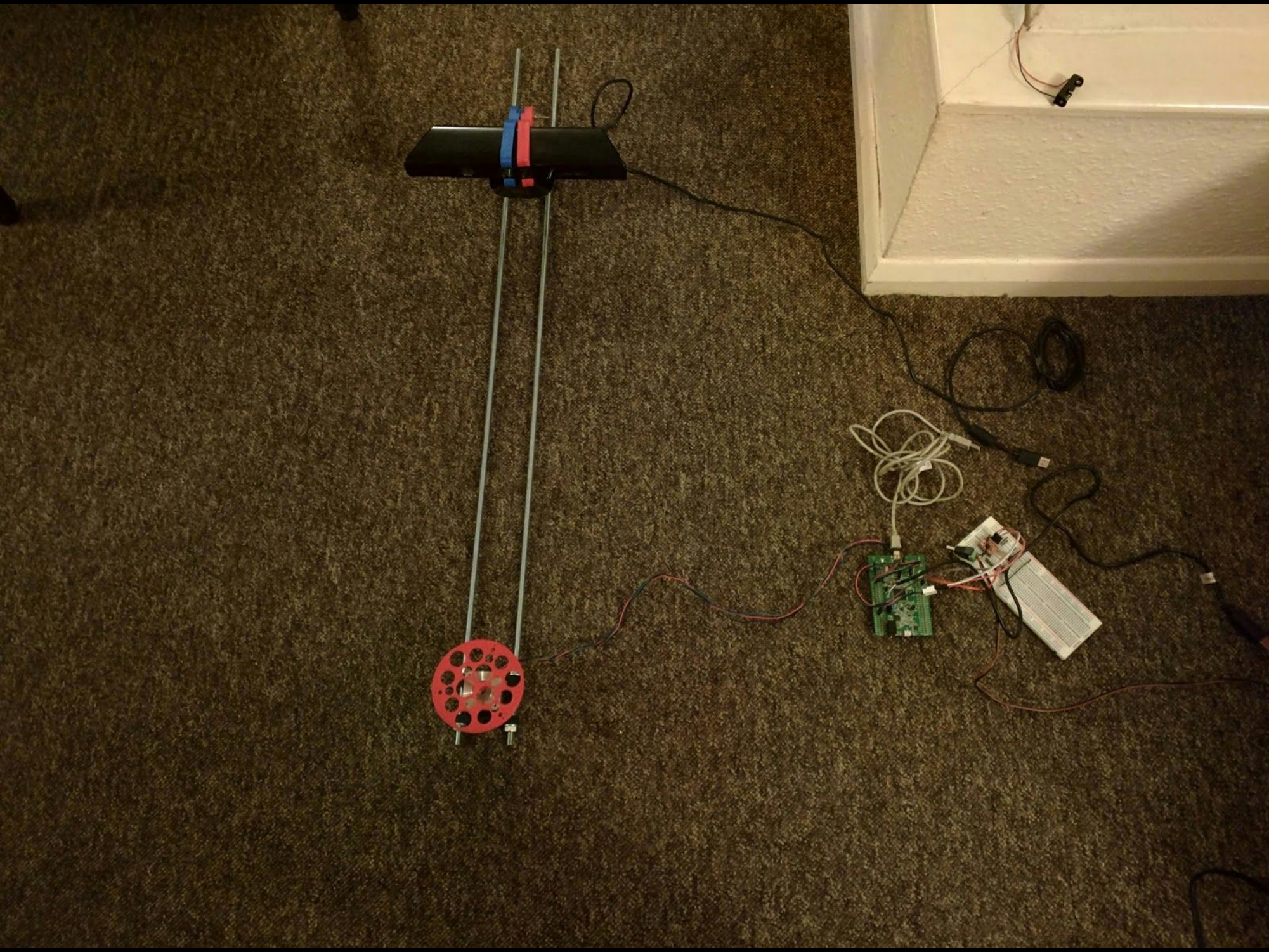
Centre for Neural Systems and Robotics
Plymouth University

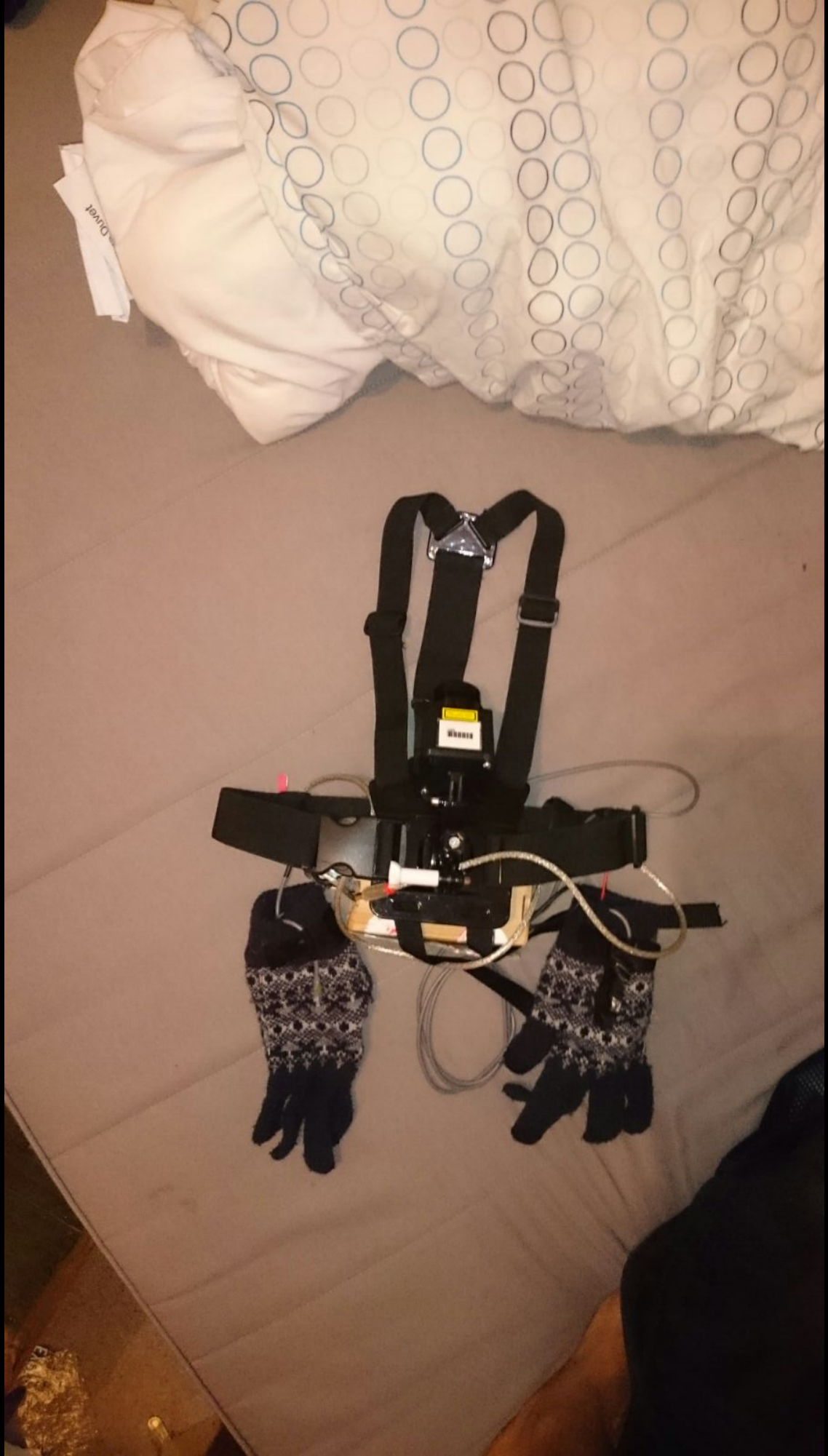
SENSORS PROJECTS

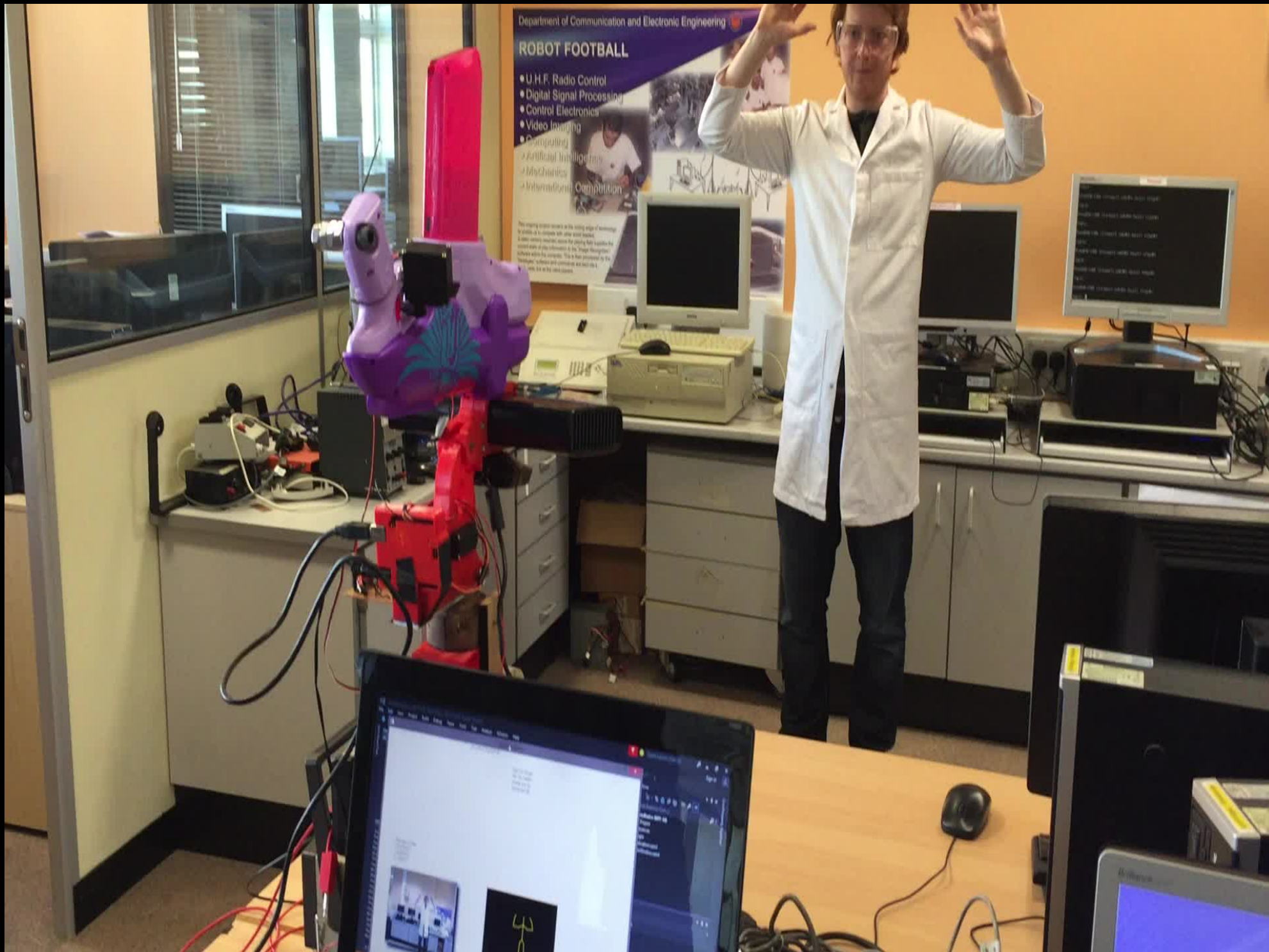
OBJECTIVE

1. Pick a sensor (or more than one)
2. Figure out a cool application
3. Build it!


START
FINISH






Department of Communication and Electronic Engineering
ROBOT FOOTBALL
U.H.F. Radio Control
Digital Signal Processing
Control Electronics
Video Imaging


Set up I

TIMEFRAME

This week – 09:00 to 12:00

- make groups (2-3 persons/group)
- play with sensors (including installation of SDKs)
- discuss a project idea within the group & get our feedback

Next week – 09:00 to 12:00

- I'm away – you can come to the lab anyway
- hack hack hack

Week 3 & 4 – 12:00 to 15:00

- hack hack hack

Bonus labs on the Monday 23/10 & 30/10; Tuesday 24/10 & 31/10

Week 5 – 03/11 – 12:00 to 15:00: **demonstrations!**

CONSTRAINTS

Not many: you choose the language, the OS, the platform

DELIVERABLES

- project demonstrations will be marked
- a report (max 10 pages) on the sensor(s) you have been using + detailed presentation of your project – **accompanying video is encouraged!**

Let’s get to work!