

COMP 4510, Mobile Robotics II
Fall 2019
Prof. Yanco

Lab 1

Out: Tuesday, 17 September 2019

Due: Tuesday, 24 September 2019

Overview: In this lab, you'll learn how to use the KIPR Wallaby controllers, both in terms of programming and connecting sensors and motors.

For each type of sensor given to you in the kit:

1. Plug it in to the correct port (analog or digital, depending upon the sensor type).
2. Write code to get live sensor readings and display them on the screen.
3. Explore the values that you get from the sensor in different scenarios.
4. For your lab report, after giving the name of the sensor, write a brief description of the sensor and how the values vary (what ranges could you get?) in different situations (i.e., when were the values the lowest? The highest? Any odd behaviors?).

Your answers should be turned in at the start of Tuesday's lab in hard copy. Make sure your name is on the assignment.