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Cpre 288 – Post-lab 6

3/4/20

Post-lab 6

1. **Prelab Planning Boards**
2. The three priority questions I formulated during my lab planning work were:
3. *Which sensors will we be using?*
4. *Will we have to code the ADC from scratch?*
5. *How will we extract the sensor data and place it in a csv file?*
6. During my planning I realized that both me and my partner would need to take some time to fully understand the ADC in order to properly configure it.
7. **Lab Notes**
8. For my three priority questions I found:
9. I found that we will be using the IR sensor and the PING sensor for this lab.
10. For this lab we did have to configure the ADC from scratch.
11. To extract some of the sensor data we just used some built-in functions from Putty.
12. For this lab I think my prelab sketch was pretty accurate to how the different connections looked.
13. For the first demo debug we showed that we could initialize the ADC and display sensor data from it. For the second demo debug we showed that we could write a function to display the quantized sensor data and the estimated sensor data to the Cybot’s LCD screen. For the last demo debug, we showed that we could format this data and display it to Putty, as well as capture the data in a csv file to create an exponential graph.
14. **Lab Retrospective**
15. In this lab we set out to initialize the ADC and send the correctly formatted data to Putty and capture said data in a csv to create a graph, helping to visualize our distance data.
16. We struggled a bit trying to initialize the ADC and capture our sensor data to put it in a csv file.
17. Our only issues were setting up the ADC and figuring out how to place our data in a csv file.
18. Next time we need to take some time read the lab documentation and the supporting materials more thoroughly.