CS 4833: Embedded Systems

Lab 2: Raspberry-Pi + BrickPi
Report and Evaluation Form

Group # ___9_____

Names: ___Hunter Long_____
___Ryan Gill_____

Q1: How much time did you spend on following parts of the lab? Which part of the lab is the most difficult one for you?

Part	Target time	Time taken
Test Example Programs and EV3 sensors/motors	20 min	20
Task 1	20 min	45
Task 2	30 min	30

Task 1 was probably more difficult because of the time it took to develop the code for the double click (but this wasn't a bad thing, it was a fun puzzle to solve).

Q2: Does the lab help you achieve the objectives? Please summarize what you have accomplished for this lab. Which concepts does this lab enhance your understanding?

The lab does help you achieve the objectives by offering guidance in the instructions. In doing this lab we wrote python scripts on the RP3, scripts that interacted with the sensors and motors of the robot. We also gained experience with the auxiliary components of the robot, which I'm sure will come in handy in future labs. A new concept we began to understand was using the RP3 to control the

robot and read input from the sensors on the robots. We also learned the logic behind how to handle a double click with software, which was surprisingly difficult.

Q3: Other suggestions for this Lab?

In general we think that this lab was the perfect length for one class period, and helped in understanding key concepts. The only suggestion we would add would be to introduce the concept of the Serial Monitor on the Prizm in this lab, so we would have some time to begin understanding it before lab 3.

Q4: What is the difficult level of this lab? (**Using 1 to 10 scale,** where 1 is easiest and 10 is the most difficult).

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