

ECE 266 – Introduction to Embedded Systems Spring 2018

Lab #5

By: Jonathan Wacker

1: Contributions: 50% Jonathan 50% Thomas

2: Describe the changes you made in “main.c” to make Part 1 work.

To make the motion detection work, the motion sensor needed to be activated by the asm function “motionInit”. Following this, the interrupt and pin define were written in the “setInterrupts” function. The pin that was used was pin 5. The result was successful.

3: Describe the changes you made in “main.c” to make Part 2 work.

With the revisions done in part 1, only the “pbIntrHandlerSW” function was affecting the result LED color. 2 cases were made: switch 1 and switch 2 pressed. This was done by the case of pbRead, and the default was the only other case that was motion detected. The appropriate color was set for each.

4: How much flash memory does your program take? How much SRAM memory?

The flash memory used is 13,366 and the SRAM memory used is 2,852.

5: Time for completion:

The time for the lab to be completed was 3.5 hours.