**ENGR 4020 Lab 6 [25 pts]**

**Interrupt Task Execution**

**Demonstrate by 3/12/2020**

**Submit by 3/13/2020**

**Tasks**

Write code to perform the following:

* Drive forward until Button 1 is pressed
* ‘Jiggle’ – Reverse and left turn, straighten out and forward until Button 2 is pressed
* Set Button 2 as an interrupt, so that it operates a servo to turn 90 degrees left, then return to center
* Once the Interrupt Service Routine is complete, turn 180 degrees and drive forward until Button 1 is pressed

**Requirements**

1. Document this lab exercise in your lab notebook, including any circuits and code generated.
2. Demonstrate functionality of the code to the instructor by the due date. You don’t need to make your robot do this on the playfield, it can be on it’s block during operation.
3. Submit your code as .cpp files on Canvas.