

ECE 476/676 - Homework #7

Edge and Timer Interrupts - Due Monday, March 17th

Edge Interrupts

1) Write a Python program to control

- The speed of a DC motor, or
- Angle of a Digital Servo Motor

using edge interrupts.

- Each time you press GP15, the speed (angle) increases
- Each time you press GP14, the speed (angle) decreases

The speed (angle) should be displayed on the LCD

2) Demonstrate your program

Timer Interrupts

3) Write a Python program to control

- The speed of a DC motor, or
- Angle of a Digital Servo Motor

using timer interrupts.

- As you hold down GP15, the speed (angle) increases using timer interrupts
- Each time you press GP14, the speed (angle) decreases using timer interrupts

The speed (angle) should be displayed on the LCD

4) Demonstrate your program