

ASEN 5067: Lab 5

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Questions

1. I kept having problems getting my PWM output to work. One upload it would work fine, the next it would be stuck in a reset loop. I believe the problem is due to using Timer1 for both ECCP3. This will be rectified by switching ECCP3 to Timer3 instead of Timer1.

Extra Credit

Q.2:

An Interrupt Service Routine (ISR) is a special subroutine designed and written to accomplish a specific task requested by the interrupt request. The only difference between an ISR and a regular subroutine is an ISR must use a special RETURN statement - RETFIE (1). This re-enables interrupts!

Q.8

The only pins that can accept external interrupt sources are:

- RB0/INT0
- RB1/INT1
- RB2/INT2
- RB3/INT3
- PORTB < 7:4 >

Q.14

The WREG, STATUS, and BSR registers are saved on the stack when a high-priority interrupt is triggered. This is in contrast to a low-priority interrupt, which requires those registers to be manually saved.