

EE 2920

Dr. Johnson

Homework 9

1) Setup all of the required ADC register settings to prepare to do a 10bit single channel/single conversion ADC conversion on analog pin 3 with Aclk/4 as the source and an 8 clk pulsed sample time, use MEM5 to store the samples 40pts

~ 3 lines of code

2) Setup the additional registers required to enable interrupts for the ADC conversion set up in question 1

20pts

~ 3 lines of code

3) Write an interrupt handler to read the conversion value into a global variable(ADC3_val) for the ADC conversion setup in problem 2. Do not assume this is the only ADC interrupt enabled. - should be < 15 lines of code 40pts

~ 10 lines of code