

# ECED 3204 Microprocessor

## Assignment #6

<http://www.jasongu.org/3204/assignments.html>

**Due date: November 22 2017. Late submission will not be accepted.**

Assignment #6 contains the following problems:

**E13.3** Write a subroutine and a C function to configure the USART3 of the MEGA640/1280/2560 MCU to operate in asynchronous mode at 38400 baud rate using the data format of one start bit, 8 data bits, and one stop bit assuming that  $f_{OSC} = 16$  MHz. Enable transmission and reception in this configuration and also disable interrupts and the multiprocessor mode.

**E13.7** Write a subroutine (call it **putHex2**) and a C function that can output the value in register r16 as two hexadecimal digits to the USART0.