EE 444

Embedded Systems Design

Lab 4: *MSP430: Digital I/O*

*3/01/2017*

**Chic J O’Dell**

Does your solution work the way it’s supposed to work? □YES □NO1

1If your answer is NO, please explain in your report.

Instructor/TA comments and grading

# Objective and Background

This lab is to introduce the USCI modal, specifically UART functionality. Using the MSP430 breakout board we will connect to a PC via serial connection in order to communicate ADC12 data.

# Equipment

* CrossStudio for MSP430
* TI MSP-EXP430F5438 Experimenter Board
* Oscilloscope
* Frequency counter

# Procedure

* *Provide a short description of how you did what you did in this lab, especially if there were different ways of doing it.*
* *Don’t copy the lab assignment’s procedure. Instead, give a summary of the steps you took to design and implement what you created in lab, in your own words.*
* *Make sure you mention all the wonderful things you did that were not specifically mentioned in the assignment.*

# 4. Results

* *What happened?*
* *Did it work as expected?*
* *If not, why?*
* *If it did work, how could you make it better?*

# 5. Discussion and Questions

* *Answer the questions that were asked in the assignment (sometimes it might be more practical to include them in the previous section).*

# 6. Conclusion

* *What was the point of this lab?*
* *What did you learn from this lab?*

# 7. Attachments

* *Additional oscilloscope printouts, code, etc.*