ECE 447 Lab Report Format

Your lab reports need to be written in the following format:

**Introduction**: A description of the assignment. What are the system-level inputs and outputs – i.e. how the user interacts with the system.

**Microcontroller Concepts**: What microcontroller on-chip peripherals did you use? Why?

**Hardware Design**: Include a schematic. Show the relevant parts of the Microcontroller and the connections that were made to any off chip circuitry. This must originate electronically (i.e. not a scanned hand-drawn schematic.) Hardware schematics include part names, part values, pin numbers, and an appropriate schematic symbol. MS Visio and PSPICE are recommended tools; MS Word and Paint are not recommended.

**Software Design**: Include a high-level software flow diagram and function descriptions. Provide additional explanations as required, in particular when interrupts and/or polling methods have been used.

**Conclusions**: Briefly describe your outcome in the lab. Describe any problems you encountered, future considerations, and possible improvements. If you did not complete the assignment to the required specifications explain why.

**Questions**: Answer any questions presented in the Lab Assignment handout. Please make sure to support your answers -- a simple yes/no may not be adequate.

**Source code**: Make sure your code is sufficiently commented and that it is your own original work. Existing code may be given to the students for parts of an assignment. When using such existing code, you must properly credit the author.