Project Documents
Due Wednesday, November 11, 2015

Please email your documents to Professor Hoff by the end of the day on Wednesday November 11. Team members should get together and submit a single design. If you draw some things by hand, please scan them in and email them.

The assignment for this week is to create some design documents for your final project:

- Schematic diagram. The schematic diagram should be properly drawn. For this assignment, it is ok to draw it neatly by hand, but in your final report and presentation, schematics should be drawn with a CAD tool. All components (e.g., chips) should be labeled; signals should be labeled, and pin numbers should be indicated if possible. Use standard symbols for resistors, capacitors, ground, etc. Include a short paragraph describing the schematic diagram(s).

- Software design document (ie, flowchart or pseudocode). For large systems, it is better to break up things up into subsystems and draw individual flowcharts or pseudo code for each subsystem. The flowcharts or pseudo code should omit details that are not essential for human understanding, but should be detailed enough that someone can readily convert it into a program. Include a short paragraph describing your design. If you do a flowchart, it is ok to draw it neatly by hand, but in your final report and presentation, it should be drawn with a CAD tool.

- Timing diagram. Draw a timing diagram and provide a description. This should show the relationships between key input and output signals, and any timing constraints that you know about. An example of a timing diagram is given in the solutions to Homework 9.

- Physical hardware setup (particularly important if your project involves some mechanical hardware construction or integration).

Note – I understand that most projects are just getting started, so it is ok if you change the designs later. But take your best guess at the design.

For additional details and examples, please see the description in the slides called “notes on Project design documents” posted on the course website on 10/28/15. You can also look at examples of past final projects on the course website.