EGR 220 One Page Lab Memo Guidelines – also see class slides

The purpose of the lab memo is to provide a means for you to reflect upon what you are learning in the course and through the lab experiments. In general, for each lab you need to:

1. Be clear on what the objective of the lab is – why are you performing these experiments?
2. **Summarize** what you did, possibly guided by the questions posed in the lab handout
3. **Include one statement** demonstrating your growing understanding of your selected question of understanding. Your statement should **go beyond** what is provided directly in course material, as a means to demonstrate you are processing and reflecting on your question, and pushing yourself to a deeper understanding.
   - Make a statement explaining your growing/evolving understanding
   - Comment on a new insight
   - Comment on insights gained from your hands-on work versus text book problems
   - Write a well-posed question about the question area
   - … Comment on what you have learned and what you still need to learn

**While doing each experiment**

- Think about what you expect for results (to identify unexpected results along the way).
- Record observations and results, results and questions you encounter along the way.
- Sketch relevant diagrams for each experiment – circuits and results (waveforms…)
- Make notes on things you are learning, and that you should be learning, to review later.

**Note for figures, tables and citations**

Your memos will often include figures, drawings, tables and sometimes references – use the format you learned in EGR 110. (You must always tell a reader why she wants to look at your figure or table, what information it contains and why this is interesting or relevant.)

**What to hand in:**

*Your memo must be a stand-alone document* that would make sense to any reader who happened to read it. You should hand in no more than **one 1-page memo for each Lab Team** (one page text, figures can be additional). Pages of text beyond one page will not, in general, be read or graded. Your memo will have the following elements.

- Informative title, all lab partner(s) name(s) (note that “Lab 1” is *not* an informative title).
- Objective: A concise statement of the purpose of the experiments *in your own words.*
- Results
  - Including well labeled figure or table with data, as needed.
  - Including content from the pre-lab *as needed* in order to present a complete picture of the lab activities and results. Do NOT simply attach the pre-lab.
  - Equations will typically be on their own line (not in-line with text).
  - Concise discussion relating to questions in the lab hand-out, as relevant.
- One concise and elegant statement of *what you learned* (see #3 at the top of this page)
  - *One statement* demonstrating your growing understanding *
  - Focus on your Question Of Understanding
  - *Note that this statement must demonstrate some independent thinking and learning.*