- 1. Introduction (~2%)
 - a. Give a short explanation of what was done.
 - b. Does not directly copy from lab page
- 2. Design and Testing (~40%)
 - a. General requirements throughout section
 - i. Concept why did we do the lab the way we did?
 - ii. Implementation how
 - iii. Testing
 - iv. Detailed
 - b. Hardware description
 - i. Full description of circuit
 - ii. Complete schematic
 - c. Software description
 - i. Describes all threads, ISRs, and functions
 - ii. Describe software set up
 - iii. Describe state machines used when applicable
- 3. Documentation (~10%)
 - a. Commented code
 - i. If you did anything out of the ordinary with your code, please explain it such that we can understand it (and you can understand it a year from now!)
 - b. Do pictures/figures support ideas
 - i. Figures are referenced in text where relevant
 - ii. State machines or complicated circuits/mechanisms MUST be included
 - iii. Drawn on computer (use tools such fizzim, Schemelt, Draw.io, LucidChart, etc.)
 - c. Good captions
 - d. All figures and information from external sources (including lab document) must be referenced

Note: There does not need to be an explicit documentation section. All of the information in this section can be interspersed through the rest of the lab. Use your judgement.

- 4. Results (~30%)
 - a. Specific
 - b. Explanation of data/testing
 - c. Qualitative Analysis where applicable
 - i. Describe outputs
 - ii. Examples: TFT flicker, audio/visual outputs
 - iii. What performed "well", what performed "poorly"
 - iv. What does yours do that other groups don't (i.e. what's special about yours)
 - d. Quantitative Analysis where applicable
 - i. What are the metrics of the lab (state metrics required by the lab handout)
 - ii. Error analysis where applicable
 - iii. Graphs/Tables of quantitative data
 - iv. Explanation of oscilloscope readings
 - v. Code speed if applicable

- 5. Conclusions (~18%)
 - a. General reflections of lab
 - i. What did you learn
 - b. If it didn't work opportunity to make up points
 - i. In this case, conclusion can be weighted more
 - ii. Ideally, completely describe how checkoff could have been reached, and possible next steps
 - iii. If possible, complete the lab anyway, so that specific errors are diagnosed.
 - c. Issues faced
 - i. No lab is perfect or goes perfectly. Talk about problems encountered while going through the lab and how the problems were debugged.
 - d. Further improvements
 - i. Further improvements in implementation
 - ii. Further improvements to lab in general
 - e. Additional questions if not addressed elsewhere in lab
 - i. Accurate
 - ii. Logically reasonable

Point values are variable based on requirements for lab, but these are approximate general guidelines.