EEL 4914 Senior Design

Final Design Report Guidelines
(Rev 0)

Your FDR’s should include most of these items (not necessarily but mostly in this order):

1. Cover Page – Project title, group name and names of group members
2. Table of Contents
3. Introduction/Project Summary (Abstract) – Give a brief summary of what your project is about. Also give motivation why your project is necessary or needed.
4. Project Features/Objectives – Explain all the features that your project has and/or what objectives or requirements it meets.
5. Analysis of Competitive Products – Show what else is out there that solves the same problems your project does. Include what is good and bad about each product.
6. Concept/Technology Selection – Describe why you chose to implement your project in the way that you are. Describe the concepts and technologies that you used and explain why you didn’t choose other concepts or technologies.
7. Project Architecture – A high level description of how the parts in your project work together.
8. Hardware/Software - Selection
9. Design Procedure Used – Explain how you came up with your current design such that if someone of similar background (i.e. another EE) could follow your design to make the same project.
10. Flowcharts & Diagrams – Include flowcharts and diagrams to help you explain how you realized your features and obtained your objectives in both hardware and software.
11. User Manual (if necessary) – Explain how to use your device
12. Bill of Materials (BOM) and business case (if applicable) – Include a list of the materials you used and the price of those materials. If a product if being made then develop a business case.
13. Clear Identification of who did what in the project
14. Gantt Chart/Project Schedule – Include a Gantt Chart or project schedule that shows the major and mid-level steps you took to complete your project. For more info on Gantt Charts, see www.ganttchart.com.
15. Appendices – Include code used, simulations, experimental setups and any other information important to your project but too cumbersome to presented in main body of the report.

Note: You can take a look at some of the examples posted on the website to get a better idea about the FDR.
Final Project Presentation/Demonstration

Show what you have accomplished over the semester. Give a demonstration of your final project working as you intended it to in your previous reports. Be able to talk about the different portions of your project and the design steps you took to realize your project. Sign up sheet is posted in the senior design lab.

Poster Session

Make a poster, show your project, win some money! Here you will present your project so that it can be judged to win prize money. Part of your setup will be a poster explaining all of the salient details of your project, but remember don’t put too much information on the poster or it will become hard to read or understand. Extra posters can be found in the senior design lab if you want to see examples or if you want to recycle them and use for your own projects.

Last Updated by A. Sciullo