Assignment 1

Problem Statement Revision, Design Idea Review, and Revised Timeline

CpE 191 and EEE 193B

Your first assignment of the senior system design course last semester was to clearly define the societal problem your design addressed. Your first assignment in the second semester is to revise the problem statement in light of the previous semester's work. This revision should accurately reflect your improved understanding of the societal problem as related to your project. The next step is to then review the design idea contract to ensure you can fully implement the features specified in your original design idea. If you decide that modifications to the design idea contract are warranted, you must create a change order request. A change order request is a document that lists what changes are perceived as necessary, the reason(s) changes are needed, and details the impact on the project both under the circumstance that the change is approved and if the desired change is not approved. Submit the change order request to the lab instructor for their review and possible approval. Review, and revise as necessary, the feature set "punch list" of your design idea. Lastly, update your timeline for the second semester of senior design.

Required Elements: Problem Statement Revision

1. Highlight how you better understand the problem. Add to the previous problem statement with a more sophisticated analysis based on your work in the previous semester.
2. Literature review – minimum of 4 peer-reviewed articles with at least four other samples of news/popular magazine articles/internet postings. Briefly discuss how these articles and references aid your understanding of the societal problem. These literature articles should be saved and included in the electronic project documentation.
3. The Problem Statement Revision report will be in the IEEE format with a cover page, abstract, keyword index, table of contents, table of figures, executive summary (one stand-alone page), introduction, main topics, conclusion, references and a glossary defining specialized terms or acronyms. The cover page will include the Report Title, Project Title, Team member names, abstract and keyword index. Cover page format is at the discretion of the team but should be clear and attractive. Upload a PDF version of your report to the team's Hive site in the "1a – Problem Statement Revision" folder.

   Length is variable.

   Single line spacing.

   Two-column format for the main body of the report.

   Use a font size similar to Times New Roman 12 pitch.

Required Elements: Design Idea and Project Timeline

1. Design Idea Changes. There is no specific document format required for a change order request. Be clear as to what change(s) is/are desired. And fully justify the desired changes. Submit the change order request to the instructor and upload the document to the team's Hive site in the folder "1b- Design Idea Review and Change Orders". After (or if) the instructor approves the changes, then revise the Design Idea document to reflect the changes to the project.
2. Revised Timeline. Update and upload a new timeline to the team's Hive site in the folder "1c – Spring Timeline Update". Timeline must be in either a MS Project or PDF format so that the entire timeline document is readable in some ready fashion.

Require Elements: Oral Presentation

1. During the lab period, give a short overview of your revised problem statement/design idea to the entire senior design group.
2. Time Length: No more than 8 minutes.
3. Visual aids required.
4. Number of speakers: each team member must speak for at least one minute.

Check the syllabus for the due date of the report and the presentation.

Executive Summary:

An executive summary is a one page (and only one page) summary of your report in plain language without technical jargon. The executive summary has its own page which continues the lower case Roman numerals (such as "Page iv.") Do NOT share the executive summary page with any other sections of your report.

Title is Centered and Upper Case.

EXECUTIVE SUMMARY