



PROGRESS REPORT

Fall 2016-2017

Team Number ECE-##

<title of project>

Team Members

Name
<Leader>

Department

Email

Team Advisor(s)

Name

Department/Company

Email

Group Leader's Signature

:

Advisor's Signature

:

*******DELETE THIS SECTION*******

Format

- Update 1). Team number, 2). Project title, 3). Team members, 4). Team advisor(s) on the title page.
- **Max of 20 pages** (Front page, index, references and appendices do not count towards this limit)
- Single spaced, Times New Roman (Body - 12, Headings and sub-headings - 14), Justified.
- Start each section on a new page
- Include page numbers at bottom right of the page.
- Delete all instruction areas in red boxes.
- Submit as a PDF to ece.sd.2016@gmail.com and four stapled hard copies (two sided) to the box in ECE Office in front of Tanita's Desk
- Do not change the section numberings.

*******DELETE THIS SECTION*******

1. Abstract

*******DELETE THIS SECTION*******

Concise summary of the importance of the problem, objectives of the project, proposed methods of solving the problem or of seeking a solution to the problem. The abstract should not exceed half a page.

*******DELETE THIS SECTION*******

Table of Contents

List of Figures

2. Problem Description

*******DELETE THIS SECTION*******

Provide a general background to the problem you are proposing to solve. Establish the need for a solution to this problem.

*******DELETE THIS SECTION*******

3. Proposed Work and Deliverables

*****DELETE THIS SECTION*****

Describe exactly what you will do to obtain a solution. Suitable content for this section would include, but is not limited to:

3.1. Descriptions of the methods of solution have you considered.

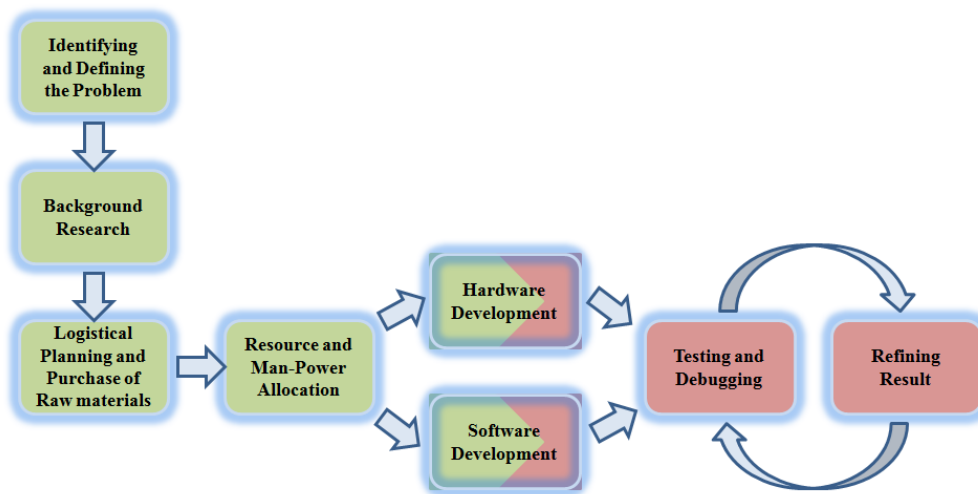
3.2. Addressing any unique principles you plan to exploit in the development of your solution.

3.3. Mention of existing systems which relate to your problem and the solution method; do you plan on utilizing these systems as modules in your development of a solution?

3.4. Mention of the state of the art in relation to your subject matter and its impact on your development of a solution.

3.5. Addressing the criterion which determines that an acceptable solution to the problem has been obtained.

****Also present a system flow diagram that shows a general process flow for your Senior Design Project. This should be specific to your project, for example; the Hardware development stage in the below diagram for a group working on a mechanical arm could be split into multiple smaller stages each indicating the various hardware components that are to be developed and integrated for making the arm say, servo design, joint design, sensor mount design, etc. You must also indicate in your diagram the completed, ongoing and pending work.**



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4. Operational Description

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Operational description of how the system you are building works (e.g., what we did using a state diagram to describe the operation of the scale in Week 2). If you have trouble with a state diagram then a bulleted list showing how it should work can be used. This should match the ideas shown in the block diagram and be as complete as possible (3 bullets are unacceptable)

*******DELETE THIS SECTION*******

5. Completed Work

*******DELETE THIS SECTION*******

Describe in detail the work that has been accomplished in the Fall term. Include pictures and graphs where appropriate. (In the case of coding intensive accomplishments, this would not be your code but giving the description of such.)

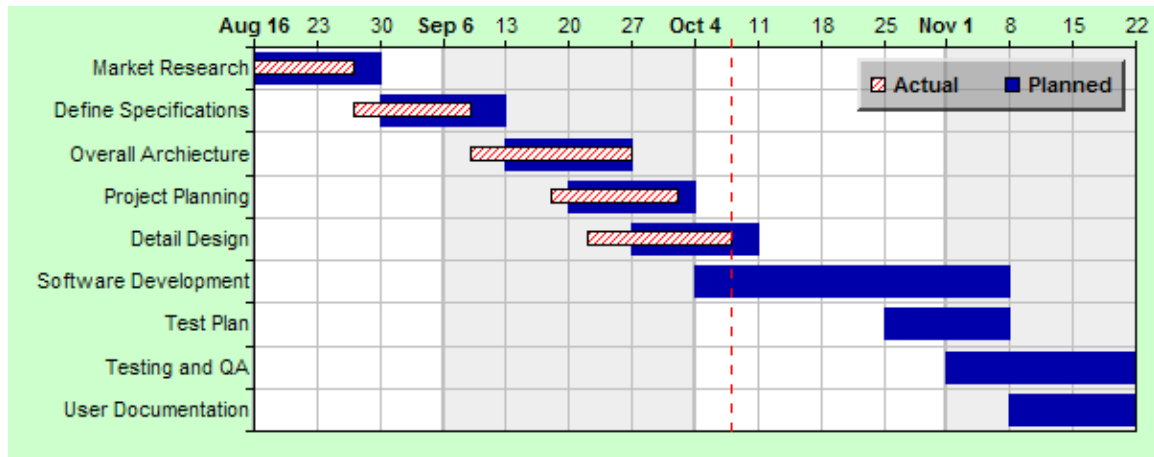
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6. Work Schedule / Proposed Timeline

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This is the proposed timeline for your project and should convey when various phases of the design cycle are planned to begin and end. It is recommended that you generate your timeline using project management software with the full intension of abiding by the internal and external deadlines that are dictated by such a schedule.

Provide this information in the form of a Gantt Chart.



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7. Industrial Budget

*******DELETE THIS SECTION*******

The industrial budget should be constructed as if your team was being contracted or working for a firm. As such, the budget should include the wages of all engineers in your group throughout the course of the design process, equipment and materials, fringe benefits, overhead, etc.

(This would include details such as rent for workspace, expendable supplies and stationeries, etc.)

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8. Out-of-Pocket Budget

*******DELETE THIS SECTION*******

The Out-of-Pocket budget is a list of actual expenditures that will be made in this project. (This should also include any amount you spent towards the project, any equipment obtained for free from Taif or any other resource.)

*******DELETE THIS SECTION*******

9. Societal, Environmental or Ethical Impacts

*******DELETE THIS SECTION*******

Provide possible societal, environmental, or ethical impacts that you expect your project to have upon successful completion.

*******DELETE THIS SECTION*******

10. Summary/Conclusions

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Half a page

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11. References

*****DELETE THIS SECTION*****

Please adhere to the IEEE citation style. This does not count against the 15 page limit.

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Appendix A: Design Constraints Summary

Team Number: ECE-##

Project Title:

Summary of the Design Aspects:

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One to two paragraphs summarizing all design aspects of the project. This includes hardware, software, testing protocols, lesson plans, etc.

*****DELETE THIS SECTION*****

Design Constraints:

*****DELETE THIS SECTION*****

Discuss how each design constraint was addressed in your project.

*****DELETE THIS SECTION*****

Economic:

Manufacturability:

Sustainability:

Environmental:

Ethical, health, and safety:

Social:

Political:

Standards and Regulations

*****DELETE THIS SECTION*****

Cite list of Standards/Regulations that were used or evaluated for the project (use IEEE Reference-style). Make sure you understand why a certain standard is to be met by your project, you will be questioned regarding this during your presentation. Don't simply mention random standards and regulations without studying their uses and requirements.

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Appendix B: Resumes

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Provide one page resumes for each of the students.

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