**Logo%20Main%20200**

**Boston University**

**Electrical & Computer Engineering**

**EC463 Capstone Senior Design Project**

**Problem Definition and Requirements Review**

Your Project Title

Submitted to



Your Customer

Address 1

Address 2

Phone

e-mail

by

Your Team Logo….

Team #

Team Name

Team Members

Name 1 [email1@bu.edu](mailto:email1@bu.edu)

Name 2 [email2@bu.edu](mailto:email1@bu.edu)

Name 3 [email3@bu.edu](mailto:email1@bu.edu)

Name 4 [email4@bu.edu](mailto:email1@bu.edu)

Name 5 [email5@bu.edu](mailto:email5@bu.edu)

Submitted: TBD

**Customer Sign-Off \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

#### Your Project Title

#### Table of Contents

Project Summary 2

1 Need for this Project 3

2 Problem Statement and Deliverables 4

3 Visualization 5

4 Competing Technologies 6

5 Engineering Requirements 7

6 Appendix A References. 8

(Right click on Table of Contents to update fields and page numbers automatically)

# Project Summary

The summary should use language that is suitable for management/public dissemination. Your executive summary may be publicized by ECE. Briefly describe the nature of the project. This should be abstract, stating WHAT is to be done, WHAT is required.

**Not more than 150 words**

# Need for this Project

Discuss the reasons for pursuing this project – who needs it? Why is it needed? Take the viewpoint of the customer, the user, the public, or that of the wider society. What motivates this long effort to produce a particular project solution?

Do NOT present personal or EC463 academic reasons for the project. Similarly, avoid general reasons for innovation, such as financial need, a profit motive, desire for new products, and patent hopes.

You can include brief explanatory background material in this introductory section.

**<1 page**

# Problem Statement and Deliverables

What are you trying to achieve? Deliverables?

**1 pages**

# Visualization

This short section should help the reader see the relationships among project functions and possibly the physical or interface requirements defining the project. The visualization could take many forms. Choose the one or two that best convey the problem’s structure. Focus here on conveying the required form of the project, rather than presenting a preliminary design.

.



Touch Screen

Left-handed keyboard

Acousto-mouse

*Figure 1.1 Here is how every figure should be developed.. Every picture and table should be numbered. Every picture should have a caption that explains the figure and allows the reader to skim the pictures. For ease of storage and email, please compress raw .bmp images, and reduce color palette if possible. Edit figures for legibility and relevance. Avoid ‘eye-candy’ figures and photos that fill space, but add little information for the user.*

**1-2 pages**

# Competing Technologies

Describe the more significant competing technologies that you have studied. Don’t bother to argue what is better about your ideas. The point here is to extract insight about your requirements. What did these competing projects have as requirements? Are you incorporating these in your requirements?

Competing technologies might be products that solve the same problem as your project. Or they might be similar technologies to your project, or similar to a significant part of your project.

Patents, IEEE/ISO/ASME standards might also be listed as “competing” technologies, in that they state formal requirements relevant to your work.

These documents, web sites, patents, etc. should be listed in the References.

# Engineering Requirements

This is the low level work.

Each requirement should meet the criteria for good requirements (abstract, verifiable, unambiguous, and traceable). You can present these in any format. See the examples Dym, Little, and Orwin “Engineering Design – A Project-Based Introduction”.

# Appendix A References.

List, in appropriate bibliographic form, those standards, patents, articles, etc. used in this document.

**Spell Check Everything!!!! Spell checking does not correct grammatical errors, conceptual errors, or malapropisms (The manual was full of Eros.) You must read the document carefully even when it has been spell-checked.**