# **Senior Design Proposal Template**

This document describes the contents of the project proposal that each team should submit. There is no required length for this document; it needs to be long enough to contain the required information.

The PowerPoint presentation that will also be part of the proposal should follow the same outline.

## **1** Introduction

## **2 Problem Description**

This section should contain a detailed description of the problem your design project is solving.

## **3 Proposed Solution**

This section gives a high level view of your proposed solution. You may find it useful to break down your solution into logical functions and describe these various functions that comprise your solution.

#### **4 Demonstrated Features**

This section should provide a detailed list of the features that you expect to demonstrate in May. Note that these features should demonstrate that you have solved the original problem.

# 5 Available Technologies

To solve your problem, there may be particular technologies or parts that you will need to apply. For example, if you are going to have a wireless interface, you will need to find wireless transmitters and receivers to provide this function, or design those items yourself.

This section should include specific technologies that you think might work to provide the functions required in your project. Note that you might not end up using the particular technology listed in this document because over the course of the design you have discovered a better or more appropriate technology.

Remember that you are dealing with limited budgets, so available must include affordable. Each team will have about \$500 to spend on the project. (Note that making a circuit board will cost about \$50.)

This section should have sufficient information to convince me you will be able to do what you are proposing.

# **6 Engineering Content**

List the engineering that your team will need to perform to design, build and test the product. You may find it convenient here to think of your overall system in terms of major functional blocks and interfaces either between the functional blocks or between a functional block and the user.

This section should convince me that there is sufficient engineering content to meet the course requirements, relative to the size of the team.

# 7 Conclusions