The speed design challenge contest was intended to be a fun demonstration of your design artifact. The main purpose of this module was to learn a process. An important part of the design process is to document the pathway taken to arrive at a particular solution. Toward that end you have been keeping a record of your process in your design log. In this assignment you will present a summary of your process. The final documentation will consist of the following sections:

- Cover page (including sketch or picture of device, names, class and date)
- Table of contents listing page numbers of sections
- Problem statement
- Users and needs
- Functions and specifications
- Alternative solutions
- Final solution description and sketch
- Justification of final solution
- List of materials (in solution and for construction) with associated costs
- Performance of final solution
- Potential future improvements

Notice that several of these sections correspond to your assignments and you are encouraged to use text from those assignments as a starting point. The bulk of the other sections should be drawn from your design notebooks. The goal of your final documentation is that someone unfamiliar with your project could read your report and understand the problem and follow your logical process. As such the document is not simply a compilation of your assignments. You will need to create an integrated document that is easy to read. For example, in assignment 1 you created a list of users and needs. In your final documentation you will want to include this list but also give some text to provide some context. You are encouraged to make connections between sections. For example, how was the problem statement used to identify users? How were the specifications used to help sort through the alternative solutions and arrive at a final solution? You may also wish to provide some secondary analysis, such as which users and needs were considered most heavily in determining specifications. You do not need to address the sections above in order. In fact, changing the order may improve the flow of the document. There are no page restrictions, but it is expected that the document will be less than 10 pages.

**Report Format**

- Use 12 point Times New Roman or Calibri font
- Use single line spacing
- Use standard 1” margins
- Use headings
- Submitted report should be in PDF