

**GEORGIA INSTITUTE OF TECHNOLOGY**  
**George W. Woodruff School of Mechanical Engineering**  
ME 2110 - Creative Decisions and Design  
Fall 2018

**Design Project**

Written Assignment due in studio Week 11 (29 October – 2 November):

Your written report should present a design overview of your entire system. This report is considered a preliminary version of the final report. It should be in the format of the final report. Your report should include all sections listed in the final report format with the exception of those discussing competition results and conclusions. The feedback from this report should be most valuable in preparing your all-important final written report. The week of the competition, your preliminary report will be returned to you graded. You should consider all input from your studio instructor when writing the final version of your project report. Your report should include the following information:

1. Problem understanding
2. System description
3. Concept alternatives
4. Concept evaluation method
5. Preliminary results
6. Competition Results
7. Future design improvements
8. Appendix with design tools, data, and figures

**Please submit 1 hard copy of this report and submit 1 electronic copy on T-Square.**

Written Assignment due in studio Week 13 (12 – 16 November):

Your written report should present a design overview of your entire system. It should be in the format of the final report. Your report should include all sections listed in the final report, including those discussing final competition results and conclusions. The feedback from this report should be most valuable in preparing your all-important final written report. Appendices may be used as necessary. The page limit is 8 pages of text, excluding the executive summary and appendices.

**Please submit 1 hard copy of this report and submit 1 electronic copy on T-Square. Also, please submit the graded copy of your preliminary report when submitting your hard copy.**

Presentation due in studio week of Week 13 (12 – 16 November):

Your team will generate a 10.5 minute (maximum length) video that will be shown at the beginning of your studio section to summarize your progress. Present your selected concept, alternative concepts, and concept evaluation methods. Before the video is presented, one team member must give a short (maximum) 1 minute briefing / elevator talk summarizing your video. Specifications and instructions for the video are located on the ME 2110 web site.

**Please note that the presenter of this oral presentation will be chosen at random via a short wire tie draw. Therefore, all team members must be ready to give this talk.**

**ME 2110**  
**Suggested Report Format for the major project final report**  
**Major Project Final Report**

As you prepare your report, you should first review the available instructions and examples. Then you should determine which format sections are of most importance in this project report.

For this report, you are asked to present your design, to review your design methods and to evaluate your competition results as they reflect on the design and the methods. Your design presentation should provide both a system overview and subsystem presentations. Your methods section should account for competition performance and it should explain that performance in an evaluation of your design process. The format outline below suggests how you should organize this information:

**Table of Contents**

**Executive Summary**

**Introduction**

**Design Overview—Complete System**

Present and describe the assembled, integrated system.

**Design Presentation--Subsystems**

Present and describe the subsystems of the device.

**Methods and Results**

Present planning tools, design alternatives, evaluation methods, current competition results, and evaluation of these results.

**Closing**

**Appendices (as needed)**