MEEG 202 Design Project
Final Report Outline

1. Title Page (= names, group#, project topic, isometric picture/sketch of final concept)
2. Intro (= Project Scope)
   a. Briefly describe problem and identify relevant competitors, technologies
   b. Define what your team is being asked to build
3. Design Process (reference, summarize UDesign/Dym&Little, but details belong in appendix)
   a. Customers and Wants
      i. Talk about their priorities (sponsor being most important)
      ii. Talk about how you ranked the wants
      iii. Talk about any tradeoffs that may occur (e.g. cost vs. quality, cost vs. features)
   b. Constraints
      What puts limits on solution ideas (e.g., any space constraints, regulations)
   c. Metrics
      i. Talk about prioritization, any cross-correlation (cost vs. weight)
      ii. Turning wants into things that can be quantified with a number or quality
      iii. (e.g., Lightweight-> weight, low cost-> cost)
   d. Target Values
      For each metric, specifying (and validating) the acceptable/desired value range
      (e.g., weight-> 5 lbs., cost- between $5.00 and $10.00)
   e. Benchmarks
      i. Compare the competition to your concept and your customer wants
      ii. Identify relevant technologies for functionalities: system and sub-system

4. For Each Team Member’s unique, individual concept:
   a. Engineering sketches
   b. Brief explanation of each design with benefits and drawbacks (clearly related to key metrics)

5. Final concept
   Selection process from individual concepts to final design with justifications - based on
design specifications = prioritized metrics with target values, or how a combination of the
concept ideas forms the final concept, or…

6. Appendix: UDesign/Dym&Little spread sheets or equivalent
   a. Include titles per spreadsheet
   b. Benchmark details (with a description of relevance)
      i. Websites
      ii. Pictures (if public domain), etc.

- Please include page numbers on the bottom
- Make sure there is cohesion between paragraphs and throughout whole report
- Caption all tables and figures discussed in report
- Include any external references in appendix (i.e. benchmarks, standards, any other data)
- Make sure all appendices, figures, tables are referenced in the main body of the report
- Table of contents is required