**Senior Design**

**Design History File (DHF) Table of Contents**

**Note: The DHF documents your work on your senior project.**

**It must be kept organized and up to date.**

Format: The DHF must be kept in a 3-ring binder. The following sections and their contents are mandatory. You must use dividers with labeled section tabs to separate these sections.

1. DHF Review Signature Page: must be the first thing in your DHF. No section tab is needed.
2. Title Page (No section tab is needed).
3. Project Problem Statement
   1. Customer Problem Statement and Preliminary Description
   2. Detailed Problem Description
4. Team Description including:
   1. Tem Members’ Names, Majors, Expertise, etc.
   2. Technical Advisor Name and Contact Information
5. Project Design

Evidence Supporting Design Activity. Include ALL of the following as appropriate:

* 1. Attribute List
  2. Objective Tree
  3. Pairwise Comparison Charts
  4. Design Requirements Table with Design Specifications
  5. Morphological Charts
  6. Decision Matrices—include the following as needed:
     1. Numerical Evaluation Matrix
     2. Priority Checkmark Matrix
     3. Best-in-Class Matrix

1. *Design Prototyping and Validation*

*(NOTE: this should document your actual design work, including sketches, ideas that did not work, partial solutions, etc. If your product fails in future, you need to be able to go back and look at the specific development to see where the problem(s) may be).*

* 1. *Final Design Artifacts (e.g., circuit schematics, board layouts, software flowcharts, code printouts, bill of materials with costs, system packaging design, etc.)*
  2. *Test Protocols*
  3. *Standards*
     1. *Executive Summary for Appropriate Standards Document(s)*
     2. *Summary of How Standard Influenced the Design*
  4. *Cascade Matrix*
     1. *Signed Off by Tester(s) for Verification and Validation*
     2. *Testing Documentation (e.g., test data, operational screen captures, etc.)*

1. Project Management
   1. Team Charter
   2. Team Calendar and/or Gantt Chart—at least week-by-week—this is your PLAN
   3. Team Hourly Budget (number of hours each member will expect to work per week)
   4. Work Breakout Structure with time effort estimations consistent with the person-hour estimates provided in the Team Hourly Budget
   5. Marking to Estimate % Completion: Update Graph Regularly to show Progress; Annotate to Explain Difference from Original Calendar / Gantt Chart—*this is what actually happened*
   6. Copies of Team Effectiveness Surveys
   7. Hard Copies of Weekly Team Progress Reports (Dated), Signed by Technical Advisor

Appendices

1. Drafts of any DHF items which needed revision
2. Copies of PPT slides for fall and spring presentation
3. Copy of Expo poster