Assignment #2:

Conflicting Needs Analysis,
Technical Requirements Specification

- Finish reading Chapter 3 and Appendix A (Section A.3) in our textbook.

- If your design team has changed its design topic since turning in Assignment #1, then rewrite and resubmit a revised Statement of Work. As before, include: customer survey questions; a summary of responses, and a "Need vs. Want" assessment for each category.

- Based on the "Need vs. Want" graphs that you drew for the Statement of Work, select what you believe are the five or so areas of greatest need. Draw a correlation matrix for these design needs (as described in Figure 3.10 on p. 33) to better understand possible conflicts between them.

- Write a Technical Requirements Specification for your product, using the case study on pp. 134-139 in our textbook as a guide. Here are some additional guidelines for you to follow:

  1. The "Background" section is essentially a summary of your Statement of Work, already submitted as Assignment #1.

  2. Include conceptual drawings for the "User Interface" section.

  3. The draft users manual should instruct the customer on using the product; include as many drawings as necessary to explain these instructions. (Do the best that you can under the circumstances that the product does not yet exist.)

  4. Your technical specifications report need not include the section "Dispute Resolution Mechanism."
5. The "Acceptance Tests Description" numerically specifies measures of a successful product's performance. Write these specifications so as not to eliminate viable design alternatives from consideration. Do not overspecify!

6. The specified maximum cost of your product should not include development costs, only what the customer is to pay for the final product (and its upgrades/maintenance/disposal costs when applicable).

- Submit the revised Assignment #1 (if your design topic has changed), the Overlapping Needs Correlation Matrix, and Technical Specifications Report to Dr. Goncharoff in class on Monday, September 29. These should be typed (figures may be hand-drawn), no longer than 7 pages in length.

This assignment will be graded according to the following:

- Was the needs Correlation Matrix meaningfully presented? (1 - 5 pts.)
- Does this document adequately specify product performance? (1 - 5 pts.)
- Do these specifications allow for design alternatives? (1 - 5 pts.)
- Are each of the specifications verifiable? (1 - 5 pts.)
- Correct English grammar, professional appearance? (1 - 5 pts.)