

AD421 • ME445 • MKTG594 Elkay Project
Spring Semester, 2008**Stephen Melamed**, Industrial Design, College of Architecture+Arts
Albert Page, Marketing, College of Business Administration
Michael J. Scott, Engineering, College of Engineering**Assignment****No. 10** Photo Documentation - Prototyping Process**Project Description**

At the end of the semester each team will have produced/fabricated a number of BOPs (per Project Description, Assignment No. 9) and one or more final prototypes to present to the Elkay Manufacturing management team. The final prototype is meant to demonstrate both the appearance as well as the proposed function of the envisioned product or system. Whenever possible, it will be highly desirable to fabricate a *looks-like/works-like* prototype for the end of the semester final presentations. Some teams may have to fabricate separate appearance and functional models due to the level of complexity of the concept.

In any event, each team should be creating many models and prototypes as an integral part of the product design and development process; the final prototype is simply the last iteration. The IPD faculty requires each team to keep a detailed (digital) photographic record of *all* intermediate, as well as final models.

Within the context of this assignment, no prototype is too small. Any three-dimensional model, mock-up, BOP, or final prototype that your team creates, even if only to test a small portion of an idea, qualifies for documentation. Please take a high-resolution (minimum 3 megapixels) digital photograph of each prototype, saving the file in either JPEG or TIFF file format.

Each team is only required to provide the full set of photographs (in a single zip file) at the end of the term, the IPD faculty strongly recommends taking pictures of everything as your team progresses in the process throughout the semester. Do not leave this assignment for the last thing you do prior to final presentations.

Project Requirements

1. Create a folder containing all of your image files. The folder should be entitled: IPD-TeamName-PrototypePhotos-YYMMDD. Each image file should have a descriptive name followed by the appropriate file format, for example IPD-TeamName-HandHeld1-YYMMDD.jpg. The final photos should be the images of your final prototype(s), photographed both as *hero* and *in situ*.

2. In addition to the image files, create a single text file (plain text or Excel spreadsheet) entitled Contents.txt or Contents.xls and place it in the folder. This file should be a chronological list of all the image files, with a *brief description* of each giving the overall dimensions, how it was made, what the purpose of the prototype was, and what was learned from the prototype.

For example, one entry might be: IPD-TeamName-HandHeld1-YYMMDD.jpg
95mm H x 50mm W x 15mm D (height/width/depth), RenShape, machined.
Used to test overall size and ergonomics of hand-held device, early volume study. Device was determined to be too small, but had appropriate form factor.

3. When the folder is complete, including photos of the final prototypes, archive and compress the folder. We expect most teams to use zip, but tar/gzip is also acceptable. *Do not use any other archive format* (such as RAR). Upload this final archive file to the IPD website.

Due Date

Tuesday, April 29, 2008 (Last day of class, Final Presentations)