

# Project Submission

## EN1740 - Spring 2012

Due: Friday March 23, 2012

### Objective

The objective of the individual project is to create a document package containing a complete product definition in accord with industry standards and practices. For the product you have selected to model, a package containing the following will be created: component 3D CAD models, a 3D CAD assembly model, 2D component engineering drawings and a 2D assembly drawing, including both a cross-section and an exploded view.

### Submission

The completed project submission should include:

- A hard copy printout of all 3D part files, 3D cross-section of the assembly and all 2D drawings.
- A .zip archive file containing all .prt, .asm and .drw files should be sent to *en1740.brown@gmail.com*.
- *Please put your last name in the archive filename.*

### Grading

In keeping with the objective of project, the grading will be centered around the overall appearance of the work, the level of detail included and the adherence to standard practices. Specifically, grading will be distributed around:

- Stretch (10%): The extent to which the modeling has gone beyond what was presented in the lectures.
- Accuracy (30%): The precision with which the models represent real world geometry.
- Intent (30%): The degree to which the dimensioning scheme convey design intent.
- Presentation (30%): Overall appearance of project submission should be clear and professional.

### Guidelines:

- **Make sure the assembly file you have constructed will open without issue before submitting.** Use File > Backup to save current assembly and components.
- Submit only **one** version of each file.
- Drawings should be produced using a Critical to Function Dimensioning scheme.
- The assembly drawing should include a BOM table (use format from assembly drawing lecture).
- To include a cross-section and exploded view, the assembly drawing should be more than one sheet.
- Drawings must follow drafting standards as shown in the text and outlined in lecture.
- Use cross-sections for the component drawings as necessary to completely describe the components.
- Datum features should not be displayed in screen shots or print-outs, for either 3D or 2D.
- Dimensions can be in either inches or millimeters, but only one system should be used throughout project.
- Be consistent with the drafting standard governing the units you have selected.
- No additional parameters need be entered on the drawing sheets.