**PART MINI-PROJECT ASSESSMENT (submit this as your cover page)**

**NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **SECTION:** \_\_\_\_\_\_\_\_ **DATE:** \_\_\_\_\_\_\_\_\_\_\_\_\_

1. How many total hours did you spend on the part mini-project, including class time? How many in planning? How many in modeling? How many in documentation?

Planning \_\_\_\_\_\_\_\_\_\_

Modeling \_\_\_\_\_\_\_\_\_\_

Documenting \_\_\_\_\_\_\_\_\_\_ Total \_\_\_\_\_\_\_\_\_\_

1. Using the ME 301 grading rubric (1-4), analyze your performance in the following:

*1- incomplete, major deficiencies* 3 - *complete, meets expectations   
2- complete, some deficiencies* 4 - *exemplary, exceeds expectations*

|  |  |  |
| --- | --- | --- |
| **Project Component** | **Self Rating** | **Rationale** |
| **Pre-CAD Plan**   * Identify Primary & Secondary Features * Explain Rationale for Location of Origin * Pick Effective Front/Top/Side Views * Order of Feature Implementation * Locate/Calculate Needed Dimensions * Keep track of ALL Assumptions |  |  |
| **Process Documentation**   * Summary Tab Overlaid on Model * Illustration of Modeling Steps * Explanation of Modeling Steps * Annotated (i.e., renamed) Design Tree * Lessons/Discoveries (about this part as well as about SolidWorks) |  |  |
| **Finished Products**   * Fully-Defined Sketches * Correct/Accurate Model * Attractive Visualization of Final Part (include at least 1 color image) * Calculation of Mass & Center of Mass * Quality Engineering Drawing(s) on Multiple Sheets (w/complete set of dimensions, use of part properties, and filled out ME template w/ other title block items) |  |  |

**PART MINI-PROJECT SCHEDULE**

**Day 1 - Design Suite Kick-Off (GJ 108)**

1. Part Mini Project introduction and assignment review.
2. Analyze legacy drawing and ask questions.
3. Pre-CAD: specify planes, origin, axes, reference geometry, and modeling approach. (homework)
4. Begin modeling part. (homework)
5. Log notes/assumptions you make about your part. (homework)
6. Inventory additional consulting questions you would like answered. (homework)

**Days 2 & 3 - Computer Lab Consulting (JEB 331)**

1. Bring hard copy and electronic documents/files to class on flash drives.
2. Share modeling/drawing rationale and progress to date.
3. Actively participate in individual/group consultations and problem solving.
4. Finish SW model and mass/center-of-mass calculations. (homework)
5. Finish SW drawing(s) w/dimensions and annotations. (homework)
6. Have someone check your drawing and sign off in the title block. (homework)
7. Prepare a complete documentation package. (homework)
8. pre-CAD plan
9. process documentation
10. finished products

**Submit Entire Package at beginning of class March 8th**