Final Project and Abstract
05/02/2012

Abstract: As a Word document, in a single page, describe for me what you would like to present to the class as a Final Project.

As we have been discussing in class, this project provides students an opportunity to demonstrate to the class a SolidWorks toolbar, tool or function (that will typically not be covered in this course) in conjunction with a design project of your choice.

Approved toolbars and the various tools in them that may be used for your project include but are not limited to the list below:
- Weldments with 3D sketching
- Any of the Simulation analysis subprograms (the engineering behind SolidWorks)
- SolidWorks Routing with 3D sketching (for pipes, tubes, wires, etc…)
- MoldTools toolbar
- Sheet Metal toolbar
- Surfaces, Curves and Spline tools toolbars (for car bodies, aircraft, musical instruments and any curved surface needing transitions)
- Layout assembly feature (for machine design using levers and motion)
- Macro functions (automate your design process)
- Any other SolidWorks toolbar, tool or function with approval

Grading criteria for the Final Project include:
- A design project with parts and assemblies presented for evaluation as printed drawings properly formatted as exercised in class this quarter.
- SolidWorks models with parts and assemblies handed in during the final presentation to be evaluated on complexity, completeness and integrity.
- A class presentation (about 3 to 5 minutes) describing your project and the SolidWorks tools used to create it.

I may combine individuals in small groups who may have similar interests. Specific grading criteria for the Final Project will follow in the weeks to come.

Criteria for the Final Abstract due in Week 7 include:
- Description of your project as discussed in class such as your senior project or something of personal interest.
- Description of the SolidWorks toolbar, tool or function that you would like to present.
- Description of how the toolbar and tools will aid in your design.

The grade for this abstract will be a maximum of 20 points depending on whether all of the items in the above paragraph have been adequately addressed. This grade is applied toward the Final Project grade (10%).

I will return feedback on your abstract at the end of week 7. Edits, updates and revisions will be due again at the end of week 7. You may revise your project by the end of week 8 by submitting another abstract. Updates to your project in the form of models or drawings will be due at the end of weeks 8 and 9 for additional points applied to your Final Project grade. Pre-presentations will the second class day of Week 9.