Homework Assignment (due on or before Class 15): Please review the end-of-course project requirements below. For your homework, please submit a paragraph describing the problem you (and your partner) would like to solve and when you would prefer to give the presentation to the class. We will spread these presentations out during the quarter.

Teams of two students will select and complete a course project using SolidWorks. The results of the project will be presented to the class orally. Details about the project are given below:

- Each presentation will last a maximum of 8 minutes (the target is between 6 and 8 minutes)
- Submit your PowerPoint to Dr. Hall one hour before class starts (on your presentation day)
- Give Dr. Hall a copy of your presentation BEFORE you present (printed 2 slides per page)
- You should choose a topic that . . .
  - is different in some way from what we've done in the class (look ahead at schedule)
  - focuses on illustrating a capability of SolidWorks that the class hasn't seen
    - a significantly more complex geometry
    - a material response not covered
    - an analysis that uses multiple element types (truss, beam, shell, solid, 2D)
    - other features (fluid flow, dynamics, impact, optimization, special BC, etc.)
  - you can use this as a chance to dive into your SR design or graduate research project
- Things to keep in mind when creating your presentation:
  - Try to teach the class something interesting (think about what YOU would want to hear)
  - Clearly state the objective of your analysis
  - Show complimentary analytical solution estimates (not required for all problems)
  - Show critical steps for SolidWorks analysis (screen shots of things unique to analysis)
  - Show your geometry and boundary conditions
  - Show your key results
  - Discuss limitations of your analysis
- Do this if you want a good grade:
  - List all references . . . it’s OK to heavily rely on a YouTube video, the textbook, etc.
  - Be sure to do something on your own a little different than what you saw or read
  - Dress in business casual
  - Go at least 6 minutes , but don’t make Dr. Hall have to ask you to stop
  - Solve a non-trivial problem
  - DO NOT just repeat what you find on the Internet (Dr. Hall is aware of much of the SolidWorks content on the Internet)