Solidworks 2 (50 points) - Due February 9th, 2026, at 11:59PM

For your final project design, you will be asked to create Solidworks designs of your device. Before being able to do this, you are being asked to practice building drawings in Solidworks. In class, you will be given time to complete the Solidworks tutorial 2 and ask questions for the instructional team. This tutorial will further build upon skills developed in Solidworks tutorial 1 and show you skills that will be helpful when making the design of your device. For this assignment, please submit 3 ".sldprt"s files including: the Solidworks files for each part for tasks 5-7. Each part should be able to be opened in Solidworks, be **fully defined**, and have correct dimensions and materials.

Note: This is NOT a group assignment. Each student needs to work on this assignment independently. WARNING: In Solidworks, there is a way to see who created the part, which we will check to make sure that each student is submitting their own part. Submitting other students' Solidworks files is an Honor Code violation.

Course learning objectives addressed by Solidworks 1:

2. Translate real life items and ideas into 2D and 3D models accurately

Specific assignment objectives:

1. Create drawings on different planes of view
2. Define proper relations, dimensions, and materials for sketches and parts
3. Build upon skills learned in Solidworks Tutorial 1 to create complex 3D geometry

Grading Criteria:

Each incorrect dimension will result in a 2.5 point deduction
Each under (or over) defined sketch will result in a 2.5 point deduction

Task 5:
- Part file – 15 points

Task 6:
- Part file - 15 points
    - Each incorrect relationship (horizontal tangent and pierce) will result in a 2.5 point deduction

Task 7:
- Part file - 20 points
    - Each missing extrude cut will result in a 2.5 point deduction
    - The pipe going in the wrong direction will result in a 2.5 point deduction