Lab Assignment - 1B
Due by next lab session (Wed, July 1)

1.) Login to your SolidProfessor account and follow the SolidProfessor Lab-1B assignment (should take about 1 hour).
Please, do not forget to complete the <u>short on-line review quiz</u> at the end of the SolidProfessor assignment. The review test is due by end of today's lab session.

2.) Complete the Practice Exercise "Plummer_Block." Change the material to ABS (assume the part is 3D printed) and determine and make a note of the mass of the block. Next, add your name as a sketch (use the *Front Plane → Sketch →* "𝔸") and place it near the model. Submit a screenshot similar to Fig. 1. Add the mass of the part in grams to the figure caption [30 pts].
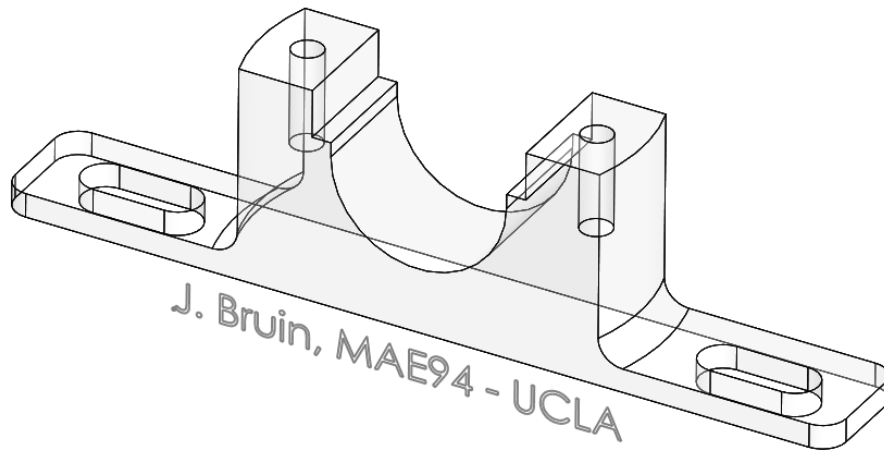

Figure 1: Screenshot of the Plummer_Block (**mass = …**; ABS).

3.) Complete the Practice Exercise "Hanger Bracket" - change the material to Brass - and submit a screenshot of your completed solid model with your name (place it near the model). Add the mass of the part in grams to the figure caption [40 pts]
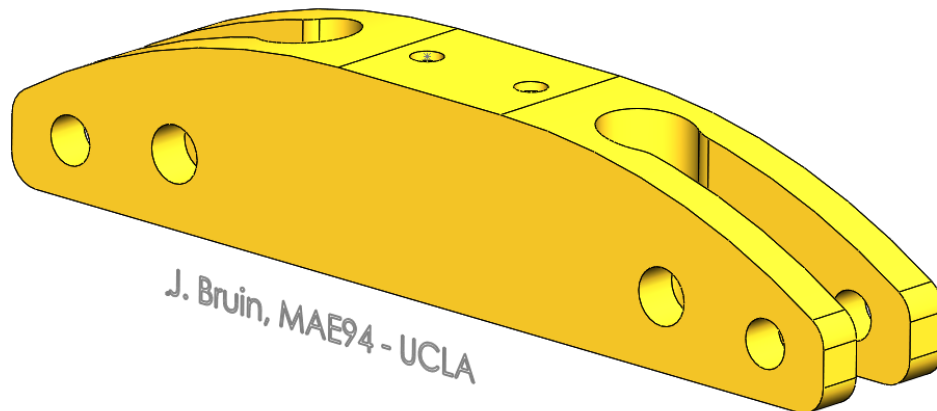

Figure 2: Screenshot of the Hanger Bracket (mass is …; Brass).

4.) Complete the Practice Exercise "Slide_Lock_Housing" and submit screenshots of the following configurations (add your name sketched in SOLIDWORKS):
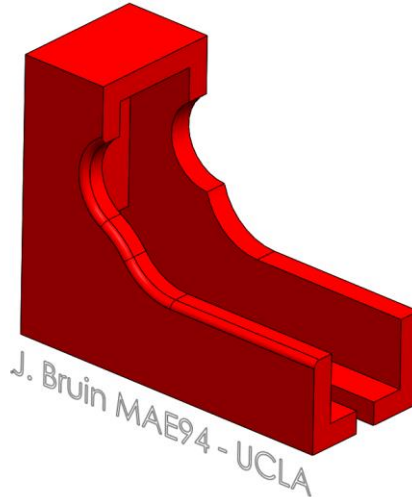
   (a) Configuration A - add a figure caption [10 pts.].

Figure 3: Configuration A of the Slide_Lock_Housing

   (b) Create configuration C; change the material to "1060 Alloy" (which is an aluminum alloy) and list the mass in the figure caption [10 pts.].
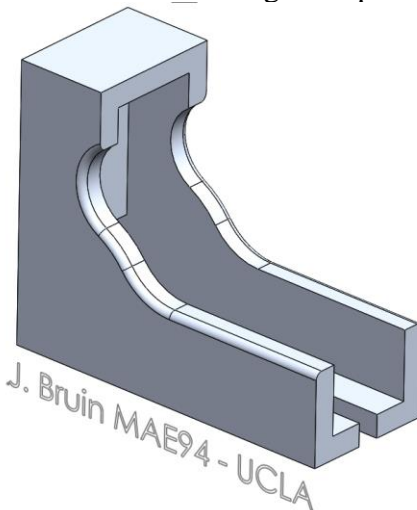

Figure 4: Configuration C and D of the Slide_Lock_Housing (mass is **…**;; 1060 Alloy)

Deliverables :

- Please upload to CCLE your assignment as a single PDF file using the following file naming convention *LastName-Lab-1B.pdf* [90 pts].

- Upload all three Practice Exercise SOLIDWORKS part files to CCLE [10 pts].