Part Modeling and Synthesis ME 170 CADLAB#4 and TEAMPROJ#3

Ben Walt

UIUC

Fall 2022



A reminder:

- Office Hours (MEL 1009):
 - Tuesday Noon-1PM (Before Lab)
 - Wednesday 9-10AM Canceled this week
 - Resheduled Tuesday 10-11AM (9/20 only)
- CADLAB#4
- Monday TEAMPROJ#2 and 3
- Tuesday TEAMPROJ#3

If you have questions on CADLAB, you should plan to visit office hours - email is not an effective way to solve issues with CADLAB problems.

MONDAY ONLY

- I want to get the Monday sections back on track with the other sections.
- I am "combining" TEAMPROJ#2 and 3 as I think they go well together.
- The new due date for both TEAMPROJ#2 and 3 is 10/2 (Sunday) at 11:59PM.
- Be aware that we start TEAMPROJ#4 next week and that is due 10/5 - Don't wait!
- I encourage you to start early and if you want feedback on TEAMPROJ#2 prior to working on 3, please ask me.

- CADLAB#2
- CADLAB#3 Multi-Step Part Modeling (Due 9/21 Wednesday -Everyone!)
- CADLAB#4 Loft & Sweep Features (Due 9/28 Wednesday)
- CADLAB#5 Creative Part (Due 10/5 Wednesday) This is a more involved lab, so don't wait to start it!

- TEAMPROJ#1
- TEAMPROJ#2 Synthesis (Due 9/21 Wednesday)(Monday Sections 10/2)
 - Monday Starting this week.
 - Tuesday Due this week.
- TEAMPROJ#3 Sketching (Due 9/28 Wednesday)(Monday Sections 10/2)
 - Everyone Starting this week.
- TEAMPROJ#4 Product Design Specification (PDS) (Due 10/5)

CADLAB#4: Loft & Sweep Features



This week's CADLAB continues with sketching and adding more complexity to your designs. You will learn about:

- Lofts
- Sweeps

I have no other advice beyond continue to pay attention to the details.

TEAMPROJ#2: Synthesis Space



- This week you will be conducting Synthesis portion of your Team Project
- I will briefly overview the slides.
- You will conduct activities with your teammates.
- Please ask questions if you need help!

TEAMPROJ#3: Sketching

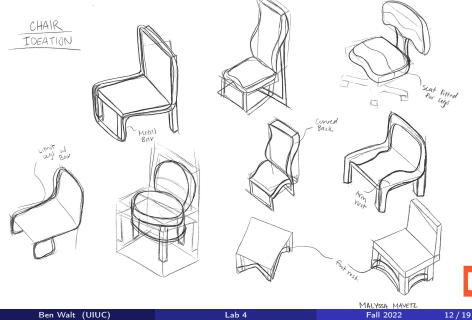


10/19

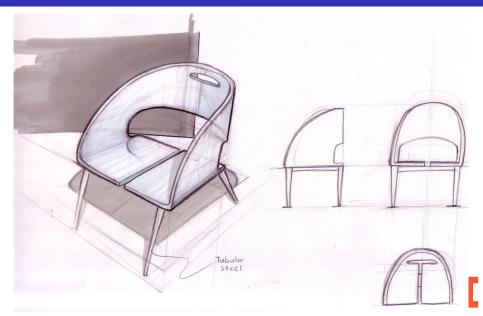
Using your HMWs developed as part of Team Project Assignment #2, develop ideation sketches. These ideation sketches should:

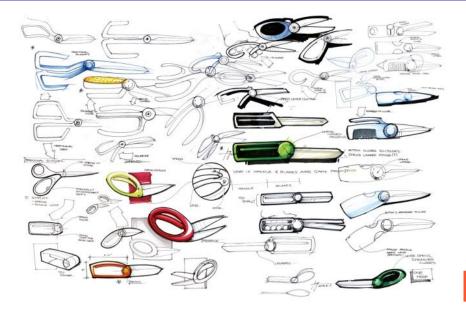
- Be on a single piece of paper
- Have multiple views
- Annotations of 1 5 words
- Clearly communicate the solution the HMW addresses
- Be signed and dated

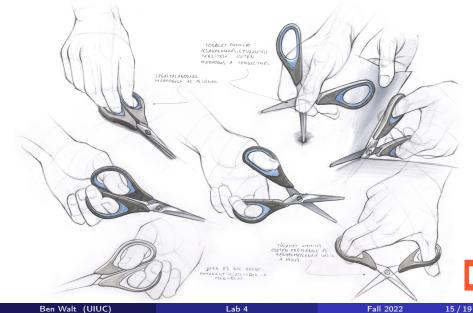
Each team member should contribute at least one sketch. Scan or photograph each sketch.

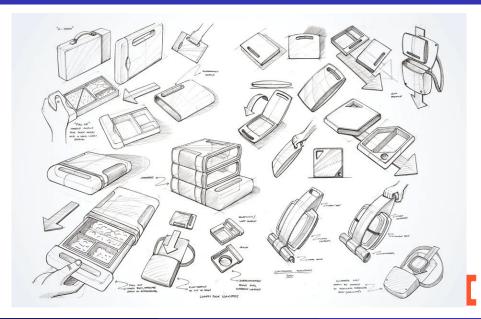


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- Simple is okay. I don't expect masterpieces of industrial art.
- Focus on the "How might we...?" and not on a finished product.
- Help the viewer understand the concept.
 - Sense of scale
 - Use/Function
 - Shape
 - Configurations
 - Materials
 - Key parts
- Show the mechanism (You need a mechanism!)
- One idea per page

- CADLAB#3 is due September 21 at 11:59PM
- CADLAB#4 is due September 28 at 11:59PM
- TEAMPROJ#2 is due September 21 at 11:59PM (Monday sections 10/2 Sunday)
- TEAMPROJ#3 is due September 28 at 11:59PM (Monday sections 10/2 Sunday)
- Start preparing for CADLAB#5
- Start preparing for TEAMPROJ#4

18/19

- Ben Walt walt@illinois.edu
- Graders:
 - Monday 1-2:50PM (AB1) Aryan Shroff aryans4@illinois.edu
 - Monday 3-4:50PM (AB2) Patrick Li pyli2@illinois.edu
 - Tuesday 1-2:50PM (AB3) Nishesh Arora nishesh2@illinois.edu
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 - Wednesday 9-10AM

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