Week #13, 14, 15 – Final Projects

Now you get to choose your own project. Last week you improved your skills at organizing a project that does not have procedures, and this final project you will apply those skills to any project of your choosing. Make sure any lessons you learned last week are used to improve your final project!

For this final lab, you will be graded on 4 items (see final page for my grading template).

If you need to purchase inexpensive parts, the lab can pay (just let us know as quickly as possible so we can buy them quickly!).

We have a 3D printer in EECS, which can really help ('J' whose office is on the 8th floor, has a TAZ LulzBot 3D printer). This can be helpful for some projects if needed!

Week 13

- finalize your project plan with Dr. H (this is informal), meet w/ Dr. H for quick discussion of the project idea
- order any parts you need ASAP (the lab can pay for inexpensive ones, let us know)

Week 14

- brief project reviews/updates with Dr. H, this is important, try to make progress so I can give you feedback. You may update me on your progress in person, or by email. Your choice. But I expect an update.

Week 15

- your video recorded presentation should be ~6-10 min, no more, and uploaded to blackboard.
- (1) use our normal lecture slides as a template
- (2) provide any relevant theory/background information (like I do in class)
- (3) diagram / explain the experimental setup and procedures (so someone else could exactly repeat it!)
- (4) present any data or other experimental results (like you would in a lab report), some groups might include a video recorded demonstration of the project (however, for some experiments, just photos of results are good enough)
 - (5) provide discussion/conclusions as necessary for the results
- If you do a video recorded demonstration, and it requires extra time, please email me for approval for a longer presentation.

<u>Try to setup your experiment so you have a goal or hypothesis, and your experiment allows you to test it somehow</u>. Try to avoid simple 'look and see' experiments. Maximize both your practical (lab setup) and theoretical learning during this lab. When appropriate, use theoretical equations to backup your conclusions as well!

Lastly, I would love to see some of the experiments in person once they are all setup and ready. This may not always be possible given your and my schedule, but your group and I should both try to catch each other in the lab when possible.

Grading Sheets for Week 15 (100 pts)

Name:	Name:
Name:	Name:
Name:	Name:
/ 25 pts. challenge level and sophistication	/ 25 pts. challenge level and sophistication
/ 25 pts. theoretical mastery/understanding	/ 25 pts. theoretical mastery/understanding
/ 25 pts. experimental setup and preparedness	/ 25 pts. experimental setup and preparedness
/ 25 pts. results, critical thinking, & presentation	/ 25 pts. results, critical thinking, & presentation
/ 100 (total)	/ 100 (total)

Notes:

Name:
Name:
Name:
/ 25 pts. challenge level and sophistication
/ 25 pts. theoretical mastery/understanding
/ 25 pts. experimental setup and preparedness
/ 25 pts. results, critical thinking, & presentation

____ / 100 (total)

Notes:

Name:
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Name:
/ 25 pts. challenge level and sophistication
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/ 25 pts. experimental setup and preparedness
/ 25 pts. results, critical thinking, & presentation
/ 100 (total)

Notes:

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Name:	
Name:	
Name:	
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/ 25 pts. theoretical mastery/understanding	
/ 25 pts. experimental setup and preparedness	
/ 25 pts. results, critical thinking, & presentation	
/ 100 (total)	

Notes:

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