

Chapt. 4 ELEC 200 TA Lab Log Progress Report

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General Log and Notes:

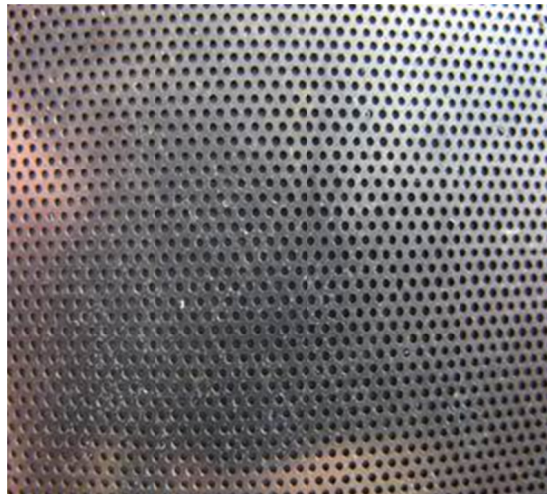
- Session Started at 6:30PM (5:30PM was optional) and ended at 9:40PM with last students left waiting to be marked on their lab performance.
- All 17 Students were present.
- Pre-labs were marked and it was expected to design the microwave in SolidWorks conforming to the dimensions of the pre-lab design, whilst being creative in applying texture, function and other features to the overall design.
- During attendance, previous marks were handed out to students and a person-to-person communication occurred on the written comments made in their reports to clarify points for their next lab, in aim of receiving better submissions, avoiding mistakes by addressing such comments.
- All 17 students have passed! And the average mark was pretty high due to the overall quality, clarity and content of the reports submitted.
- Those who have worked hard and productive + being creative in using SolidWorks tools interactively, received an extra 5% (assessed and assigned by the TA) out of 25% of the labwork in aim of guaranteeing 5% of the 50% *results* criteria (see Lec07 notes).
- Further, it was/is asked for a **perfect report structure and content**, a combination of the report structure stated in the lab manual as well as Lec07 notes, to begin the report with an overall **objective** and **introduction**, since a proper report with a conclusion, is to have such components intact. Some students were considerate enough to include this in their reports. In general, a question for this session is to be answered in the introduction in terms of: "**What is/are the function(s) of a microwave in the industry? (Don't give a naive answer like "for cooking a meal", an answer from an engineering perspective is expected: e.g., the inner-camber or cavity of the microwave contains xx frequency /wavelength to conduct a y effect to heat up a meal, etc.)**" The second question is "**What is the purpose of applying paint, texture or materials and having a different design in the industry? Is it for better presentation and/or...**" Of course, students are free to add anything relevant to this context or similar contexts of this session.
- The marking criteria were generally explained and students have their comments available to produce better results as expected for next time.

Further notes for the Attending Students on the forthcoming lab sessions:

- Remember to finish off before your deadline on the session as occurred, last night, Oct. 29th 2012. The report submission deadline is on Nov. 5th, 6:30 PM. After this hour and minute, any submission is deemed as late thus receiving a penalty of 25% per day. Meaning that after 6:30 PM, either hardcopies being dropped in the dropbox or submitted in

person, 25% is reduced out of 100% on chapt4 session (excluding the bonus mark distributed on your total mark).

- Bad, unreadable printouts, pixelated drawings with tiny font display on measurements in your hardcopies, plus irrelevant ratios (scales) far from your pre-lab settings attached to your report next week, are strongly discouraged and could result in no marks on your work! It is your sole responsibility to work out the drawing tools on e.g. scales (I have explained how to refer to the *sheet* --> *properties* via clicking the right mouse button on it and change its settings) generating a readable *.pdf file (printout) before submission (say, have your parts being generated in a 4:1 ratio now producing a tiny font on a 2:1 multiple-drawing views sheet?)
- Relative to our discussions made during the session, in particular, comparison of manual and SolidWorks drawing techniques: highlighting certain notions e.g., were your manual drafting had less accuracy in reflecting the actual work designed in the program? What was so unique about your design in the lab compared to the one from the manual (new buttons, different display, more functions added, rotating plates or some mechanism, etc. please specify)
 - o Did you approach a design and measurement problem in some other way compared to the report or TA hints? If so, what problems did you encounter, and did you correct them? How? Was the software useful to you compared to a manual approach or did you find it monstrous?
 - o Put such questions and probably answers addressing/discussing the issue in a simple double-column table in terms of **pros and cons**. List as soon as possible before you forget last night's events.
- For gaining an excellent mark, your *main course instructor* expects from TA's to prove design uniqueness: So now, you must have an additional page attached to your report denoting enhancements made to your design: 2 pages on the lab performance as scene and multi-view sheet with measurements conforming to your pre-lab dimensions, 1 pre-lab, and 1 as enhancements to your trimetric scene/graphics). At least, two or more functions are expected to be added to your current design:
 - 1- **Un-tiled texture map** applied to the microwave screen as your grid



Those who have satisfied this requirement have no need to do this, but most of you need to make your textures corrected and un-tiled or in one piece e.g., not having multiple time 1:20 PM's displayed on the LED screen, or say the microwave body covered with repeated patterns,

- 2- a door handle on your microwave for opening it,
- 3- Other functions if added should be specified in your printout (a side note) attached to your previous lab printouts from the session. This will guarantee full marks on the results portion of your report (lab performance has been evaluated and this is different), otherwise, you then have to rely on your bonus marks gained to compensate the bare-minimum contemplated for your report.

Have a productive week,

With best regards,

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