

Chapt. 2 ELEC 200 TA Lab Log Progress Report

TA: Philip B. Alipour

General Log and Notes:

- Session Started at 6:30PM.
- Due to Lab tutorial and introductory session for certain formalities involving students and the TA (me), another 40 minutes was added and finished at 10PM. Extra minutes remained for examination of the remaining B01 members.
- Total of 16 Students were present, 1 absent.
- The overall marks shall be finalized for 50% contributing to the report based on the current electronic files, discussions and results as well as further improvements that shall be made before the deadline.
- All relevant electronic versions with results from the lab were submitted after the lab session ended and now received by the TA for further evaluation.
- Those that 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, outside of the scope of the lab manual, where students needed hints for solving a problem or unnecessary help to finish the design, received reduced grades affecting the overall progress report on each individual. **Note:** It was emphasized that students should finish their work individually and of course, possibly giving hints to each other for better usability of tools and not the solution per se, unless asked from the TA in person. However, the outcome was in general progressive and the overall marking was mainly based on the efforts and progress of the students made on this lab session.
- Currently, students shall be working on the report and its clarity for the remaining 30% as well as their improved results for the 50% results plus discussions and the electronic version of their submissions as received and maybe an improved version for improving their grades on the 50%. Overall, the current efforts are being made for the 80% whilst more-or-less, for now 25% is being validated from the lab session and shall be finalized during the week. In addition, based on the results, 5% out of 50% for those who have made good progress during the session is granted.
- Based on the student's progress throughout the major sessions specified on the webpage <http://www.ece.uvic.ca/~elec200/>, the accumulated grades per 100% will be averaged, and thus designate the final/total mark of the student e.g., hypothetically say after 4 major sessions, $(75\% + 50\% + 80\% + 90\%) / 4 = 73.75\%$
- In the following major sessions, students' pre-labs are expected to be marked at the beginning of the session and/or after the tutorial. Last session, however, since it was an introductory one with other

trivialities involved, formal to the occasion in getting to know one-another, the pre-labs were marked during the session, exceptionally.

Notes for the Attending Students on the forthcoming lab sessions:

- Remember to finish off before your deadline on the session as occurred, last night, Sept. 24th 2012. The deadline is on Oct. 1, 6:30 PM. After this hour and minute, any submission is deemed as late thus receiving a penalty of 25% per day according to Lec07 ELEC 200 notes (you may download it from the main webpage). Meaning that after 6:30 PM, either hardcopies being dropped in the dropbox or submitted in person, 25% is reduced out of 100% on Chapt2 session (excluding the bonus mark distributed throughout the 100% share).
- Follow carefully the lab report guidelines from Lec07, specifically from your lab manual, on page 21.
- 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 pinpointing and sectionalizing hidden lines compared to SolidWorks.
 - Was the mapping of your work to the program and creating an identical object revealed and addressed such problems on an industrial level (e.g. revealing side-view hidden lines of the part, etc. accurately)?
 - Were the hints useful from the TA to make an effective approach to finish the job on time? Did you approach the problem in some other way without paying attention to the hints? If so, what problems you encountered, and did you correct them? How? Was the software useful to you compared to a manual approach or did you find it monstrous?
 - What if the approaches were to be different like starting off with a basic square and a triangle shape attached to it and try to mate them, thereby use smart sketching tools to design the 2nd model/part just with your basic (1st lab session) knowledge of the software? In this case, it would have been extremely hard and time consuming compared to manual drafting. Right?
 - Put such questions and probably answers addressing/discussing the issue in a simple double-column table in terms of **pros and cons** as specified on page 21 of your lab manual. List as soon as possible before you forget last night events.
 - Further, how could you solve a drawing or metric problem, would it be through e.g., tutorials via SolidWorks help menu?
 - One of the cons could be finding e.g., metric conversions from the program which doesn't provide the user/engineer an automated solution on the spot. The program is a "**design automation software**". I personally from a programming perspective (as an old-school guy used to extremely complex designers like AutoCad, 3D-SMAX, etc.) find it much easier to just type in 2mm in the dimension properties box even if for now accepts 2in by default. In other words, by invoking the subroutines of the program to automatically recognize this conversion, rather than asking the user to go to tools option each time or specifying your system

before creating a new file as part of document properties, change of units option, etc. Probably this could be posted to SolidWorks forums or its program designers to make it more proficient and less time consuming in that sense.

- Also, for your report, in your observations and discussions, indicate the quality of communication of your TA and you. Was it complicated, or easy enough to understand and address issues on your mind as you encountered a problem? Would you prefer your TA to use more technical terms of communication, or is it sufficient enough to get the job done?
- I also need to know whether you want the next session tutorial shown to you with hints and shorter ways of doing things like last time, in return you will have an extra 30~40 minutes to finish your lab (at 10PM). Or do you prefer **just hints and assistance** during the session without the tutorial, officially ending the session at 9:20~30PM?
 - I need a vote on this, so just say "**With Tutorial YES**" or "**NO Tutorial**" on this by responding to this email. Further comments or questions are of course welcomed.
 - Also, make sure to have your pre-labs ready before the next major session starts i.e. Oct. 15. I'll mark them after the tutorial, and if the vote is in favor of not having a tutorial, then right at the beginning of the lab after checking your attendance.
 - Next major session will be finished according to the allocated timeslot (assuming no tutorials) and marking the session will be in an orderly fashion from computer station #03 onwards.
- All should at least come for the next session, as checked and confirmed, we can have one between **5 PM and 6:30 PM** (this is unofficial and not mandatory to stay for the whole duration). So I'll check whether all reports have been submitted expectably on my checklist. You may leave after a few minutes or so, if the intension is to work some other day. I suggest for those of you, new to SolidWorks, to practice more and get yourselves familiarized with the tools and come up with creative ways in designing objects before Chap. 3 begins (Oct. 15).
- Those of you that want to swap with some other group member for some reason, you must inform me before the next session starts so I'll inform other TA's and the course instructor to make a replacement, if possible (another group member). **Note:** if the absentee from the last session still doesn't turn up, we could have another person onboard.
- I have mentioned to the course instructor that one of the stations (2nd computer from the front middle row) won't allow people to log onto it.

Have a productive week,

With best regards,

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