

EET-265L Final Project Requirements

The end-of-semester requirements for the EET-265L Advanced Automation Lab projects are specified below. Please read these carefully. There are 3 major aspects to the Final Project Requirements: **Written Paper**, **Video Presentation** and **Class Demonstration**. Details of each of these requirements will be specified below.

- 1.) **Written Paper.** The paper you submit should contain at least 5 pages of text on your main area of study. If you diversified and worked on several different areas (for example: Fanuc LR200, Pneumatic Trainer, PLC (HMI, Micro 800's, CompactLogix/FactoryTalk), soldering, etc.) you should select ONE of these to be the main topic of discussion. After your presentation of your main topic, you can then mention the other areas you worked on as well with whatever additional documentation you wish to provide. A minimum of 1 paragraph per additional topic is required, but longer is encouraged.

As stated above, your main topic should include a minimum of five pages of text. You should also submit additional information such as pictures, programs, diagrams/schematics, etc., and those should be *in addition to* the 5 pages of text. For example, if you created a PLC program, you should submit documentation such as the PLC Ladder diagram, schematic connections/wiring diagrams, and perhaps some pictures showing your setup.

This paper must be submitted **both** electronically and in paper. The completed document should be in the form of a report with a Cover/Title Page, Introduction, Main Body, Conclusion & Appendix (if needed). Completed reports will most likely be in the 10-20 page long range. Remember, this is a “capstone” course and is your opportunity to relate and demonstrate as many of your skills, both technical skills and soft skills, as possible in this document. This is a summary of your work during this semester.
(Grade Weight of Written Paper: 60%)

- 2.) **Video Presentation.** You should create a short video clip (1-3 minutes long) demonstrating your main topic of study. This video should include your narration of what is being demonstrated and other helpful information so the viewer can see what is being done. Part or all of your video may be used in the EET Advisory Board Meeting for the 2021 Spring semester.

If you are going to email your video, you need to reduce it's file size to under 10 MB and the video must be in one of the following formats: *.m4v, *.mp4, *.mov. There are free programs to convert formats if you need to do so. If you prefer, you can either post your video on YouTube and provide a link, or upload it to your Google Drive and provide a link, and we can download it that way.

(Grade Weight of Video Presentation: 20%)

- 3.) **Class Demonstration.** You will be required to perform a short demonstration of your main project skills in front of the class. In most cases, this should be similar to the video presentation you create, so it should not require too much in the way of additional preparation.

The demonstrations will be held on Tuesday, 5/18, so those in the Thursday section will be required to make arrangements in their schedule so they can be available to be on campus on that day.

(Grade Weight of Class Demonstration: 20%)

As noted, the written part of the project carries a maximum of 60% of the grade, with the video and demonstration parts each contributing an additional 20%. Note that this is the grade for this assignment only,

NOT the entire lab grade. Your participation, attendance, professionalism and other work performed throughout the semester will also be figured into your overall lab grade for EET-265L.

Due Dates: The physical printed **Written Paper** is due on or before 2:00 PM on Thursday, 5/20/21.
The **emailed document** is due on or before 9:00 PM on Thursday, 5/20/21.

The electronic submission of the paper **MUST** be as a **SINGLE** document. Incorporate all pages into a single document in either MSWord format (*.docx) or Adobe Reader (*.pdf) format and email a copy to Prof. Ruotolo ([CERuotolo.stcc.edu](mailto: CERuotolo.stcc.edu)) and to Prof. Jagodowski ([Jagodowski@stcc.edu](mailto: Jagodowski@stcc.edu)). The email must be sent from your STCC student email address and the **Subject** of your email must be: **EET-265L Final Report 2021SP**. If you use any other subject, you run the risk of your paper not being graded.

The **Video Presentation** is due on or before 2:00 PM on Thursday, 5/20/21.

You must either email the video file directly to Prof. Ruotolo and Prof. Jagodowski or email us a link so that we can view/download it. The email must be sent from your STCC student email address and the *Subject* of your email must be: **EET-265L Final Report Video 2021SP**. If you use any other subject, you run the risk of your video not being graded.

The **Class Demonstrations** will be held on Tuesday, 5/18/21 beginning at 10:00 AM. The lab area will be open at the usual 8:30 time if you wish to arrive early to get set up or rehearse. The presentations will be done near whichever equipment you need for your presentation, so we will be moving between Rooms 118 and 116 as needed. Social distancing guidelines will be upheld as usual.

Good Luck!