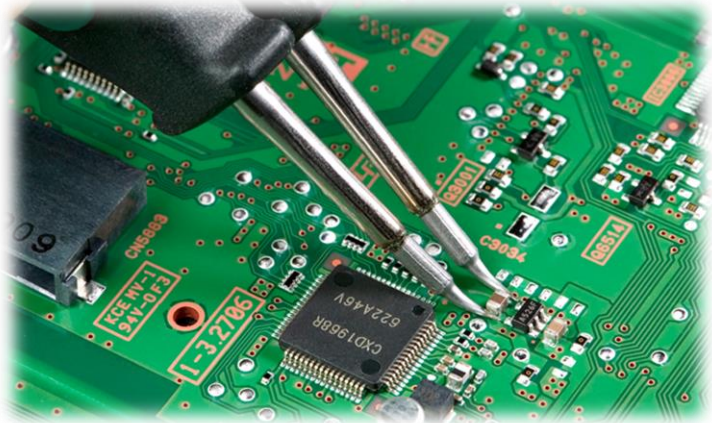
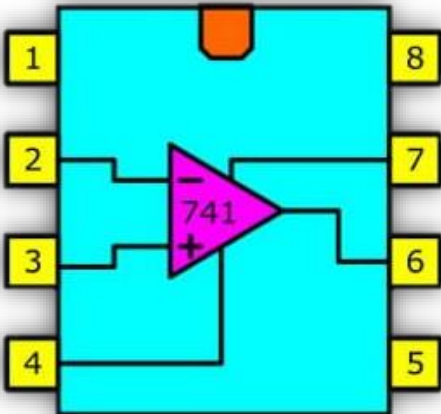
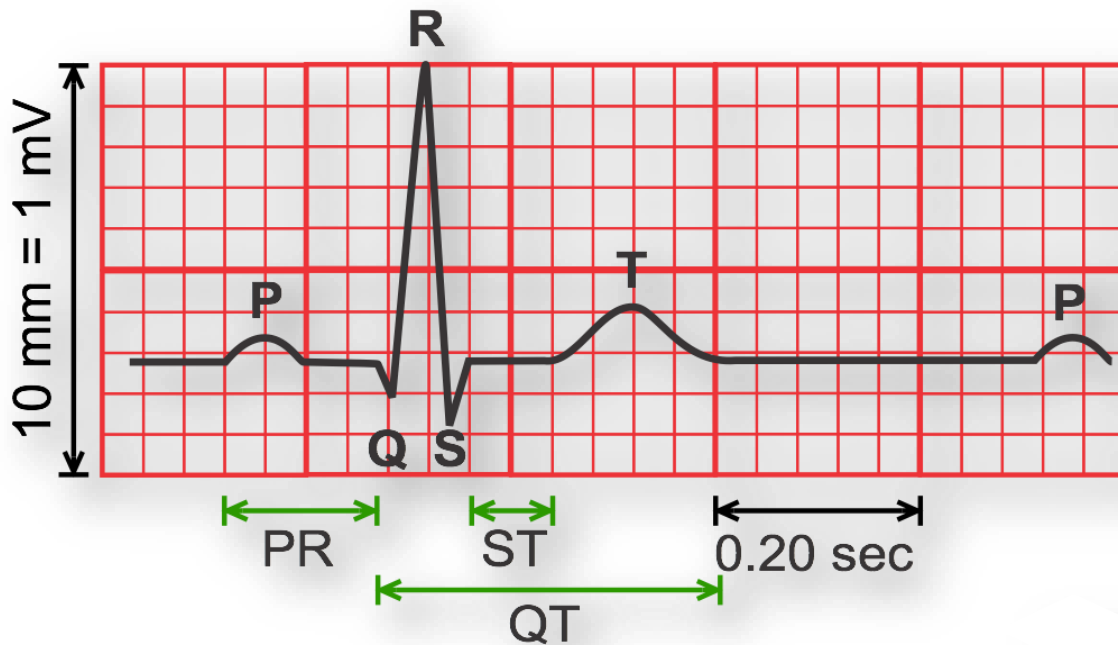


ELECTRONICS

ENGR – UH 3611

Laboratory Manual



Muhammad Faraz Afzal Sheikh

Fall - 2022

Laboratory reports

The format specified below must be respected.

- One report per experiment per group.
- Lab reports must be type written and be presented very well. It would be required to submit the word as well as PDF of the written report.
- The lab reports are normally due before the next session of the lab or as agreed with the Lab Instructor.

In addition to the documentation of measurement results, one must allow the other people to make use of the results later, and therefore add an adequate amount of information to make the report comprehensive. For this reason, a laboratory report must be prepared and written carefully.

1. How to write a laboratory report?

Following is a list of what a lab report should contain:

- Title of the Experiment
- Names (complete) and NETID.
- **Introduction** (This is where you introduce the experiment that you are going to do i.e. Instrumentation Amplifier etc.)
- **Procedure, Measurement, Calculations:** (Procedure that you have done along with all the screen shots of the inputs, outputs. You will also discuss the challenges faced and the steps taken to mitigate those problems/challenges and if those steps were able to solve your problems)
- **Observations and Conclusion** (Final conclusion and comments, learning outcome.)
Circuit diagrams and Simulations (where possible, tabulate computed values from theory beside the measured values).

2. FILE NAMING LAB REPORT:

- Please upload both the versions in the classes WORD as well as PDF documents.
- The naming of the file shall be the **Lab number** followed by the **first name** + the **first letter of the Last name**.
- My First name: **Faraz**
- My Last Name: **A**fzal
- Lab report is: **Lab1**
- So my lab report file name would be:
- Lab1_Faraz**A**.pdf
- Lab1_FarazA.docx
- It is important to follow the Lab Report naming convention as I will have to grade them electronically, and I have to follow a systematic naming.
- So if James Bradford is submitting a Lab, file name shall be:
- Lab1_JamesB.docx

Project Lab 5

Objective:

Continue working on the Altium PCB Project and generate the manufacturing files.

***Deliverables:**

- Screenshot of your COMPLETE schematic
- Screenshot of you PCB with components arranged. (Possibly all routed)
- 3D picture of the PCB (Hit they key '3' to get it)
- Manufacturer files (If everything is completed -- Gerber Files, NC Drill File).
- The folder should be uniquely named as I always describe here:

FILE NAMING LAB REPORT:

- Please upload both the versions in the classes WORD as well as PDF documents.
- The naming of the file shall be the **Lab number** followed by the **first name** + the **first letter of the Last name**.
- My First name: **Faraz**
- My Last Name: **Afzal**
- Lab report is: **Lab1**
- So my lab report file name would be:
- Lab1_**FarazA**.pdf
- Lab1_**FarazA**.docx
- It is important to follow the Lab Report naming convention as I will have to grade them electronically, and I have to follow a systematic naming.
- So if James Bradford is submitting a Lab, file name shall be:
- Lab1_**JamesB**.docx