# CMPE 460 Lab Exercise Zero Lab
# Report Breakdown

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Lab Section: 01L1
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**General Information:**

-Use the provided cover sheet and fill with your information

-Single or Double Spaced, Times New Roman, Full Justified (not left, right, or center justified)

-You should be typing in third person with no references to I, me, my, the TA, the student, etc.

-You work in a lab, you're doing an exercise

-**Past tense always**

-All Figures need to be labeled and discussed in the report.

-All tables and figures must be computer generated, anything hand written will not be graded.

-Table headers must be with a table, not split between page breaks. Don't split the table either.

-For tables/figures, introduce the figure before you paste it and discuss it afterwards.

-Submit in pdf only, code should be separate, and no zip files or 10 points off.

-Scan in the grading sheet and submit separately. Use a scanner, no pictures.

-All paragraphs should be justified.

**Abstract:**

A detailed overview of the lab, this should be 1 large paragraph.

-The objectives of the lab

-summarize the procedure of the lab

-summarize the results, use discrete values if possible

**Procedure:**

Anything done in the pre-lab should be in the Procedure along with any theory done during lab. This includes all schematics, equations, K-maps, truth tables, etc. Make sure you state WHY you did something, not just what you did. Any hardware or wave form results should be in the results and analysis section. Always talk about every figure you put in your report. In summary:

-what did you do in the pre-lab?

-what did you do in lab and why? Be detailed!

-figures, graphs, tables, and discuss them all

-use theoretical measurements

All tables need a title above them. Every figure needs a title below it. The same for equations but also label the equations with numbers beside them. See the examples below.

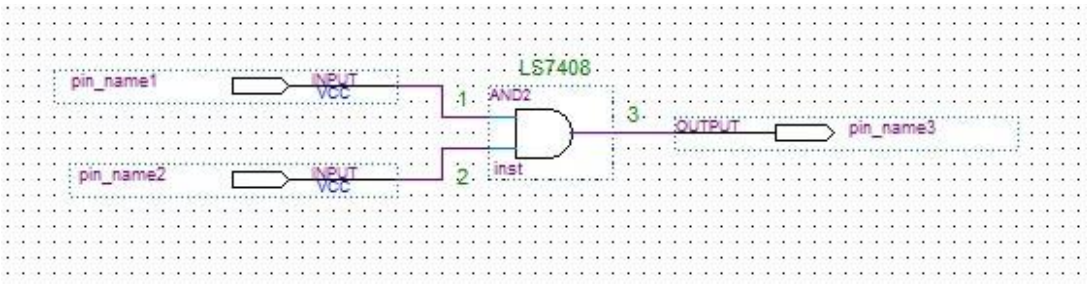


**Figure 1: Example schematic for an AND gate**

**Table 1: Example Karnaugh Map table**

| AB\CD | 00 | 01 | 11 | 10 |
|---|---|---|---|---|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 1 | 0 | 0 | 0 |
| 10 | 1 | 0 | 0 | 0 |

$$V = IR \quad (1)$$

$$Z = A'B + A \quad (2)$$

$$Z = XYZ + X'Y'Z + XYZ' + X'Y'Z' \quad (3)$$

**Equations 1-3: Example equations to show proper format**

You can take figures from the lab manual and place them in your report.

**Results and Analysis:**

All data collected in lab is shown in the results. This includes waveforms and tables. Things to include:

-How did you get the results?

-What were the results?

-Analyze the results.

-Waveforms and tables that contain results belong here. (always discuss them!)

-State and use experimental resistor values

**Conclusion:**

Sum everything up, similar to the abstract, but this time add information you learned while doing the lab. Include:

-Describe how the objectives were applied in exercise

-Discuss any troubling parts of the exercise, incorrect results, or improvements that could be made to the lab

-Discuss how what was learned can be used in other scenarios

-Was it successful? (Literally, I'm looking for the word successful in there)

**Appendix:**

Use this only for large tables and figures.