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**Lab Report**

**EE357 Spring 2020**

**[Title of Experiment]**

**[Your name]**

**Lab partner(s): [name1], [name2]**

**For: Prof. K Russo**

**Date Performed: [date]**

{Delete this text – Name this file “EE357\_S2020\_Lab#\_Last\_First”  
where # is the lab number, Last is your last name, First is your first name  
Save as .docx or .pdf }

**Title**

{Delete this text – The title says what you did. It should be brief (aim for ten words or less) and describe the main point of the experiment or investigation. An example of a title would be: "Mapping Electric Fields from Voltage Scalar Fields". You generally want to begin your title using a keyword rather than an article like 'The' or 'A'.}

**Introduction**

{Delete this text – One paragraph (50 to 150 words) that explains the objectives or purpose of the lab. In one sentence, state the hypothesis. An introduction may contain background information, briefly summarize how the experiment was performed, state the findings of the experiment, and list the conclusions of the investigation.}

**Equipment**

{Delete this text – List of all the equipment used in a test. This list includes the test equipment's name, part number, as well as the equipment's number, for example "National Instruments VB-8012 VirtualBench, Station #5". List other key items, e.g. aluminum electrodes, conductive fluid, gridded tray. Listing your equipment ensures that the experiment can be reproduced.}

**Procedures**

{Delete this text - Describe the steps you completed during your investigation. This is your procedure. The procedure should be sufficiently detailed that anyone could read this section and duplicate your experiment. Write it as if you were giving directions for someone else to do the lab. It will often be helpful to provide a diagram of your experimental setup in a Figure. Note any testing anomalies that caused you to deviate from the general procedures.}

**Data**

{Delete this text – Numerical data obtained from your procedure usually is presented as a table. Data encompasses what you recorded when you conducted the experiment. Include setup values like DC supply voltages/currents. It's just the facts, not any interpretation of what they mean.}

**Results**

{Delete this text – In this section, you report the experiment’s outcome(s). Here, tell the reader what the test measured with exact data. You might also include calculations or equations. This section may or may not include data interpretations. Some readers expect interpretations, or conclusions, to be a separate heading.}

Analysis and Discussion

{Delete this text – The Data section contains numbers. The Analysis section contains any calculations you made based on those numbers. This is where you interpret the data and determine whether or not a hypothesis was accepted. This is also where you would discuss any mistakes you might have made while conducting the investigation. You may wish to describe ways the study might have been improved. Answer any research questions posed in the lab in this section. }

**Conclusions**

{Delete this text – Most of the time the conclusion is a single paragraph that sums up what happened in the experiment, whether your hypothesis was accepted or rejected, and what this means. Here, you might also speculate about the implications of the results or even about the methods used to obtain the results. You may need to interpret, or make recommendations about, the results for the reader.}

Figures and Graphs

Graphs and figures must both be labeled with a descriptive title. Label the axes on a graph, being sure to include units of measurement. The [independent variable](https://www.thoughtco.com/definition-of-independent-variable-605238) is on the X-axis. The [dependent variable](https://www.thoughtco.com/definition-of-dependent-variable-604998) (the one you are measuring) is on the Y-axis. Be sure to refer to figures and graphs in the text of your report. The first figure is Figure 1, the second is Figure 2, etc. You may use the Figures and Captions feature of MS Word if you like to make this easier.

References

If your research was based on someone else’s work or if you cited facts that require documentation, then you should list these references.