**CPEN 291 2016W2  
Lab 2**

This document serves as a rough template for your lab report. Do also read and follow the “Deliverable” section at the end of the lab description.

**Cover page** - The first page of the report must clearly include the following info:

*Lab section: \_\_\_\_\_\_\_ (example: L2A) Team Bench #: \_\_\_\_\_\_\_\_ (example: 4C)*

*Student name Student number Contribution percentage*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_

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*Contribution summary*:

*Note 1*: The ***contribution percentage*** indicates how much every member has contributed overall to the lab. In a three member team, the percentage would be 33.3% (or 1/3) if everybody contributed equally.

*Note 2*: The ***contribution summary*** outlines the description of the task(s) each member worked on and completed. This must be included.

**The body of the report** - The body of the report must be one to four pages including the following sections. The report serves as a complete documentation of the system, circuitry and functionality of the lab. Only include enough code in the body of the report that is necessary for your explanations.

**A. Introduction and motivations**

**B. Lab Description**

- Explain the design, and implementation procedures. During the lab if you selected a method over the others for any step, describe the second best alternative you considered.

- Explain the evaluation/testing procedure and results. Include the problems you encounter and how to resolve them, as well as best practices you learned.

**C. Conclusions and Reflections**

**D. References**

- Include any cross-references you have used.

**Appendix I**

- Include an image (snapshot) of the fritzing breadboard schematic, fit in one page, here.

- This is in addition to your submission of the complete Fritzing file to Connect. The image you include in this appendix must be the exact snapshot of the breadboard view of the schematic you submit for Fritzing deliverable.

**Appendix II**

- An appendix including the complete Arduino code including comments.

- This is in addition to your submission of the complete Arduino sketch/program file to Connect. The code you include in this appendix must be the exact copy of the code you submit in the program file to Connect.

**Note:** any of the appendixes can be as long as necessary. The pages that are used for an appendix are not counted towards the overall report length.

**Note**: you may include an additional Appendix, if you need to include some content that cannot be fit in the body of the report as per instructions.