Final Report Worksheet

## Statement of Work

This writing template is designed to help you plan your Final Report.

At the completion of this worksheet you should have:

* An outline of the sections you plan to include
* Sketches or preliminary drafts of each figure

In the sections below, fill out the bulleted lists or include responses/plots below the section headings.

## Outline

There are a variety of ways that you can organize your tech memo. The list of sections below is a suggested place to start, but you should feel free to modify it to best fit your rhetorical purpose. Consult with a professor or proctor if you have any questions.

1. Abstract
2. Introduction
3. Sensor Design
4. Robot Design
5. Deployment Details
6. Conclusion

See the [tech memo writing template](../../labs/lab6/writing-template.qmd) for a refresher on good topics sentences and equations.

## Template

### Abstract

#### What is the main gist of your project?

#### What is the significant quantitative result(s) of your project?

### Introduction

#### List the key concepts that you need to introduce

* Concept 1
* Concept 2
* …

#### What references are needed to support the concepts you want to introduce?

### Sensor Design

For for each sensor, include information about its design.

#### What sensors does your robot include?

#### Sensor 1:

##### What is the expect range of input values?

##### What sensor did you select to make the measurement? Why?

##### Describe the circuit you designed. Include schematics and calculations.

##### What if any software modifications were made?

##### How did you validate/calibrate your sensor? Include plots.

#### Sensor 2:

##### What is the expect range of input values?

##### What sensor did you select to make the measurement? Why?

##### Describe the circuit you designed. Include schematics and calculations.

##### What if any software modifications were made?

##### How did you validate/calibrate your sensor? Include plots.

#### Sensor 3:

##### What is the expect range of input values?

##### What sensor did you select to make the measurement? Why?

##### Describe the circuit you designed. Include schematics and calculations.

##### What if any software modifications were made?

##### How did you validate/calibrate your sensor? Include plots.

### Robot Design

Include information and calculations for the mechanical design and integration.

### Deployment Details

Include relevant data for your deployment (e.g., relevant plots of data collected, photos/diagrams)

### Results

Include the plots you’ll use to present the key results from your deployments. Plots should include comparisons to theory and ground truth measurements.

### Conclusion

#### Write a succinct (3-4 sentence) summary of your project and results.

#### What were the big-picture takeaways from your work?

#### What are your recommendations for future work? If you were deploying again next week, what would you change/improve?