

Project\_Report\_Format Project 2

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OUTLINE

ECE-218 Project 2 Report Format

Hardware

Software

### ECE-218 Project 2 Report Format

Except for the title page, all the sections names below (Introduction, Design Overview, etc) should be included to organize your report. **Note this document has changed since Project 1.**

**Title page** – should include a project title, author (that’s you), course number and title, and date.

**Note:** It is not acceptable to copy any part of the project assignment in your report. The report should be written in your own words.

**Objectives** – This section should orient the reader to the project topic and detail the goals of the design. In addition to the goals given in the assignment, elaborate on any requirements that got clarified during the project implementation, or that you added as a specification.

**Design** – Begin this section with a design overview that describes how the behaviors required in the project are implemented in the hardware and the software. Follow this with an overview of the major steps you took to complete the design.

**Hardware**

This subsection should start with **text** that introduces the hardware diagram for the project. This hardware diagram (schematic) shows the external components and their connections to the Nucleo board. Pin numbers and connections to power and ground should be included. **For Project 2, your hardware diagram should be a schematic that includes only the keypad(s) and the servo motor.** You can just give a list of Nucleo pins that are connected to the other parts of the smart home system. An example is shown below for the gas sensor. Power and ground connections for these other components will be assumed.

Component	Component Input/Output	Nucleo Board Pin
MQ-2 Gas Sensor	D0 - digital output	PE_12 - digital input

An example schematic for the circuit build in Chapter 1 is shown in Figure 1. This was made using EasyEDA.com and if you choose to use this program, you can [see this page for hints](#).

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