EECS 1011 Lab J: Minor Project check-in

Summary

The goal of this lab is to provide students with an opportunity to demonstrate their project to the TA during the scheduled lab time and to ask questions, as needed.

Introduction

There are five milestones in this minor project. This is the fourth. The objective is to help make sure that you are on track to successfully completing the project.

Marking Guide

~~*Connected with the TA during the lab session: 1 point*~~

1. Plant and Grove board are interfaced (demo in lab) *1 point*
    a. 0.5 points for showing that you have pump, sensor and plant connected (physically)
    b. 0.25 points to show that your pump can be turned on briefly
        i. Doesn't need to actually water the plant
    c. 0.25 points to show that you can measure moisture with your sensor
        i. In soil, air and/or glass of water
2. Photo of Plant and Grove board (PDF) *1 point (no partial marks)*
    a. The photo must be complete, with
        i. plant + Grove / Arduino board
        ii. sensor + pump + battery pack + MOSFET (or equivalent) switch.
    b. The photo must be labelled, similar to what is shown below.

The interfacing of the plant and Grove board should be working. However, if it is not, you will still receive the mark. That said, if it is not working, now is the time to **discuss it with the TA** during your scheduled lab time to see if you can get it working. If you have something to show to the TA, a video connection is required. If you have nothing to show (i.e. nothing is interfaced) then an audio connection or text connection is sufficient.

Submit the photo to the eClass site before the due date (Sunday after your scheduled lab time, at 11:55pm)

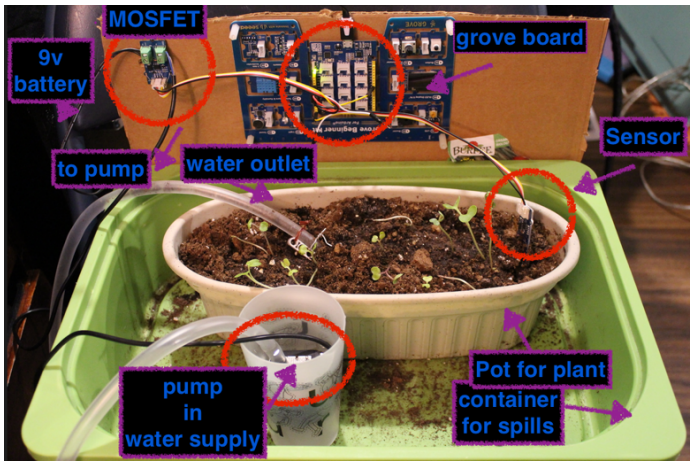

Figure 1 Photo of a typical setup. (note that water supply should be below your plants otherwise water won't flow right.)

Project schedule

1. Milestone 1 b/w Labs C & D: confirm plant & equipment selection
2. Milestone 2 b/w Labs F & G: submit picture of plant setup (no electronics)
3. Milestone 3 @ Lab H: Hook up pump and sensor
4. Milestone 4 @ Lab J: Check-in on status
5. Milestone 5 @ Lab L: in-lab demo, watering the plant