

EECS 1011 Lab L: Minor Project Demo (updated)

Summary

Demonstrate to the TA that you have a working automated watering system for your plant.

Introduction

There are five milestones in this minor project. This is the fifth.

Marking Guide

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|---|-----------|---------|
| 1. Plant and Grove board demo | (1 point) | |
| 1. Electronics and software “done”, but nothing working | | 0.2 pts |
| 2. Only one of sensor or pump working (only) | | 0.4 pts |
| 3. Both sensor & pump working (partially) | | 0.6 pts |
| 4. Both sensor & pump working (mostly) | | 0.8 pts |
| 5. Soil dry, then water pumps and moist soil detected | | 1 pt |
| 2. Annotated Photo of Plant and Grove board (PDF) | (1 point) | |
| 1. No annotations or otherwise incomplete | | 0.5 pts |
| 2. Fully complete, with annotations | | 1 pt |

(Annotated photo PDF is different than the public “before-and-after” photo on eClass)

The interfacing of the plant and Grove board should be working. You can receive part marks if it is partially 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)

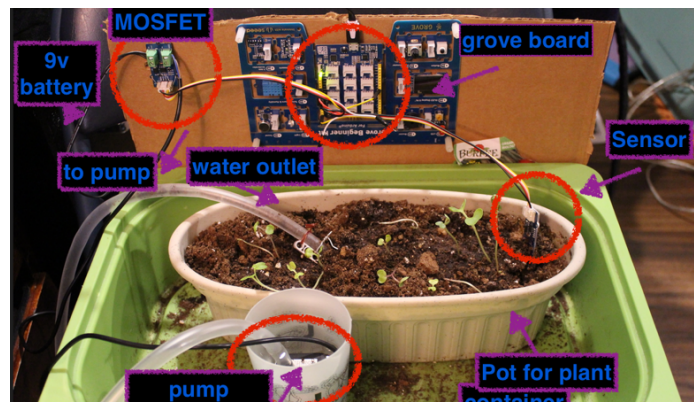


Figure 1 Photo of a typical setup. (note that water supply should be below your plants otherwise water won't flow right.)

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