



μProject #1 “Let There Be Light”

Due Thursday 1/26

HCI-833 Applied Gadgets,
Sensors and Activity
Recognition in HCI
Spring 2017

This is the first in a series of “micro-projects”, each designed to be a quick and easy building exercise that demonstrates a widely useful interactive capability. These μprojects should be very quick to do and don’t (individually) count for a huge portion of your final grade. We will do “check mark grading” for them (i.e., observe the functioning of your result and check your name off a list indicating you finished it).

Purpose

This micro-project is to ensure you have your Arduino hardware and software environment set up and running by creating a simple light display with some LEDs. (You may notice some similarity to the first day in-class build exercise.)

What to Build

Build a simple device with your Arduino which flashes four LEDs. Turn the first LED on for 2 seconds, then the second for 1 second, the third for a ½ second, and then the fourth for a ¼ second. Then flash the four in some pattern of your choosing. Wait ½ second, and then repeat.

Turning the Assignment In and Grading

This assignment is turned in by having one of your classmates certify completion and turn in a “peer demo” sheet signed by them (and fill out the corresponding on-line form on the Blackboard system as well). This project is pass/fail. μProjects will be accepted without late penalty until Monday April 3rd (after which a 10% per day late penalty will be applied). However, please keep in mind that additional μprojects will be coming in rapid sequence (and you only have one breadboard to put your circuits on), so don’t fall behind.

Note: μProjects #2, #3, and #4 will build on this project, so don’t tear down your project after it’s been graded.