



## **μProject #2 “Pushing the Right Buttons”**

Due Tuesday 1/31

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

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### **Purpose**

This μproject explores the use of buttons to control a simple display.

### **What to Build**

Build a simple device which lights four LEDs one after the other and controls the direction of lighting with two push button switches. When one button is pressed, the LEDs should light in sequence left to right (and then repeat). When the other is pressed the LEDs should switch directions and light in sequence right to left (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 3<sup>rd</sup> (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 #3 and #4 will build on this project, so don’t tear down your project after it’s been graded.