



Timothy Chuc

IME 458

May 24, 2012

Agenda

- ☞ Project Description
- ☞ Design Problems
- ☞ Finished Product
- ☞ Demonstration
- ☞ Considerations for Future Designs

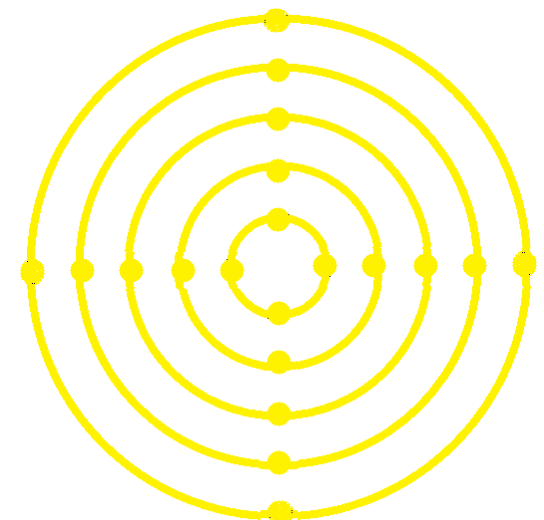
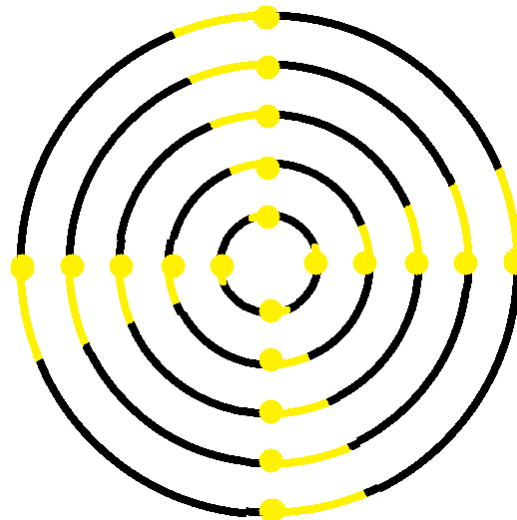
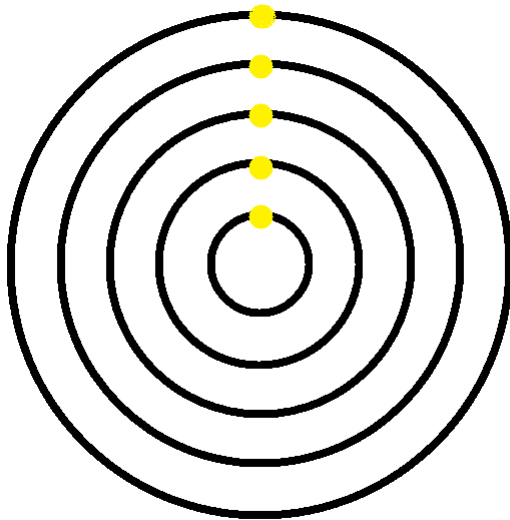
Project Goal

Project Description
Design Problem
Finished Product

To design, fabricate, and assemble the Spoke POV board by Adafruit Industries.

Spoke POV

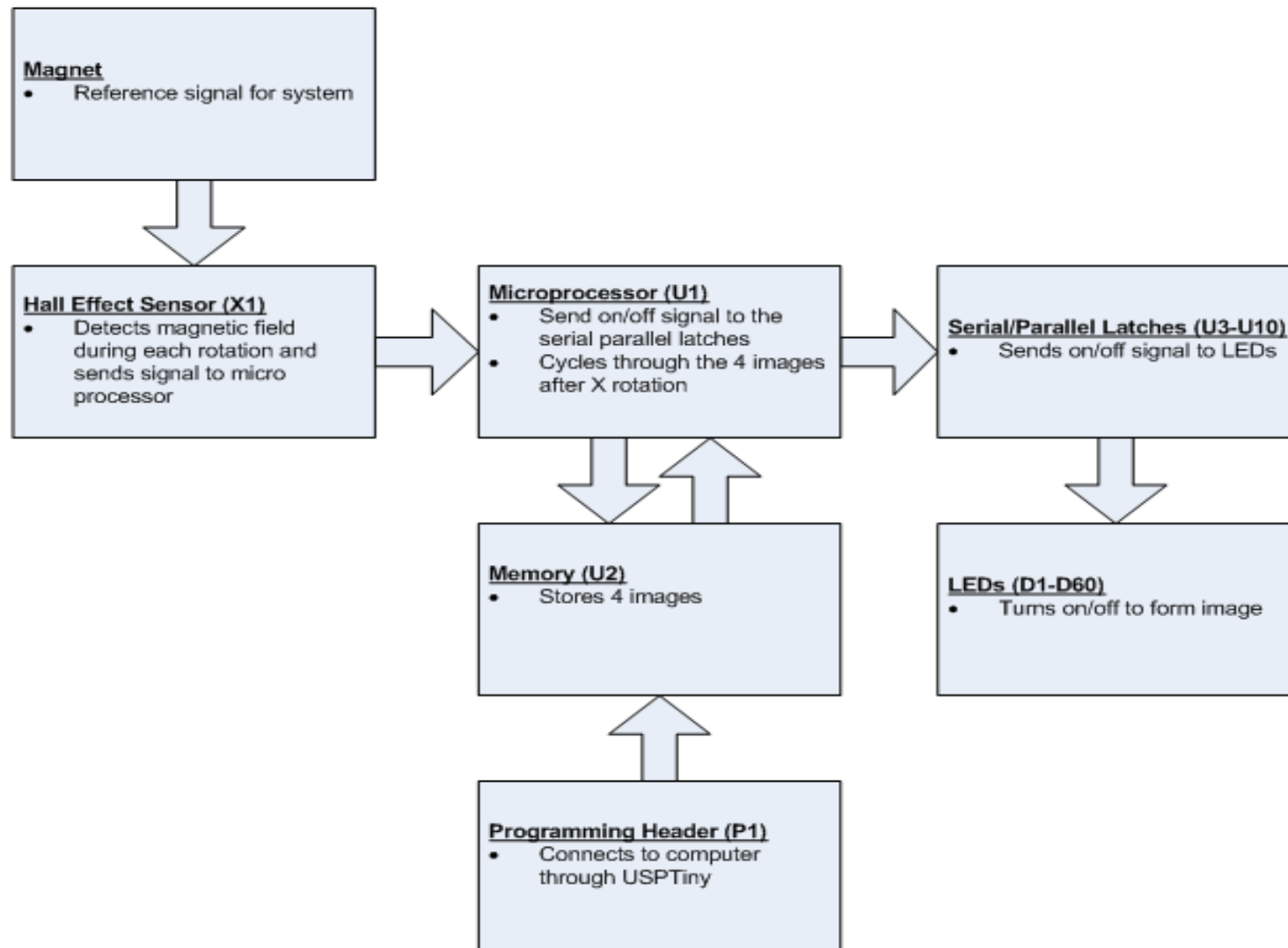
Project Description
Design Problem
Finished Product



1 board >15mph
2 boards >10mph
3 boards >7mph

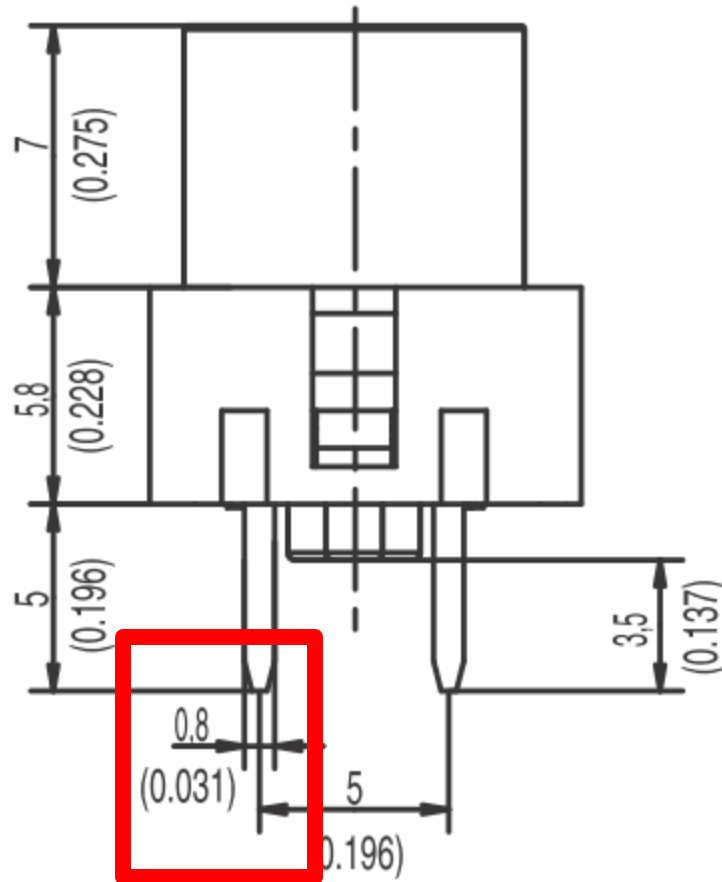
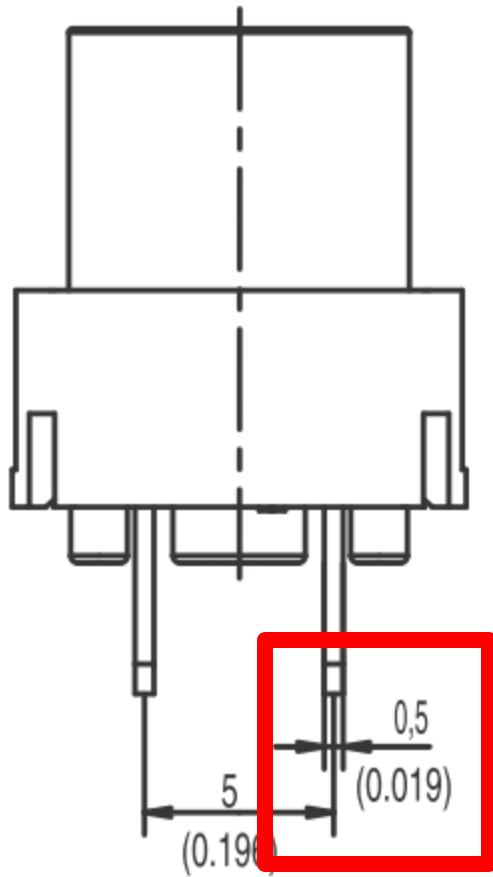
Functional Diagram

Project Description
Design Problem
Finished Product



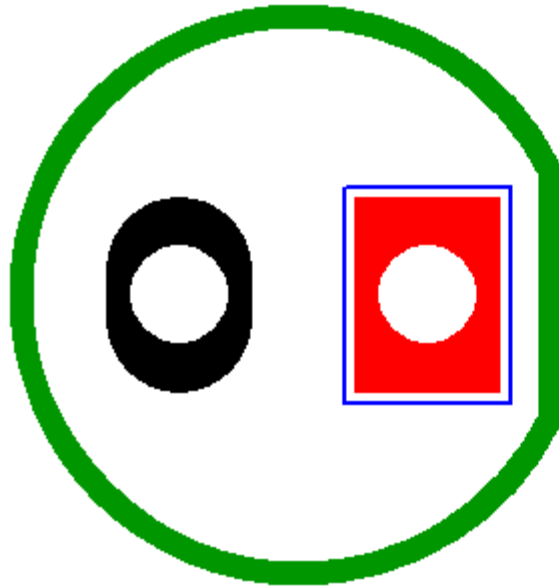
Switch Pattern

Project Description
Design Problem
Finished Product



LED Pattern

Project Description
Design Problem
Finished Product



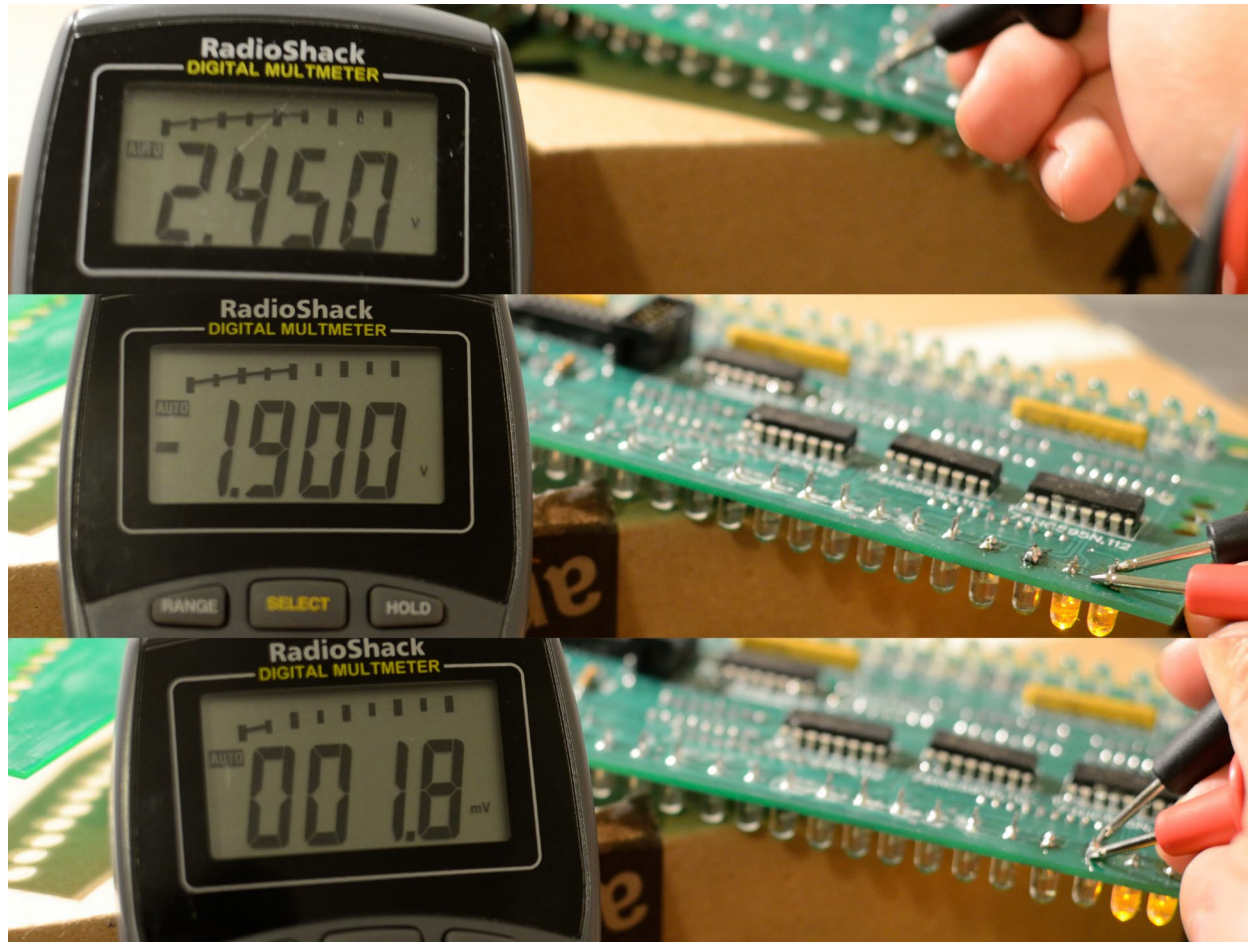
Pad 2

Number / Position	Type / Dimensions
Number:	2
Note:	
Pad X:	0.05 in
Pad Y:	0 in
Orientation:	Horizontal

OK Cancel

Rework

Project Description
Design Problem
Finished Product



Alternative

Project Description
Design Problem
Finished Product



27Ω



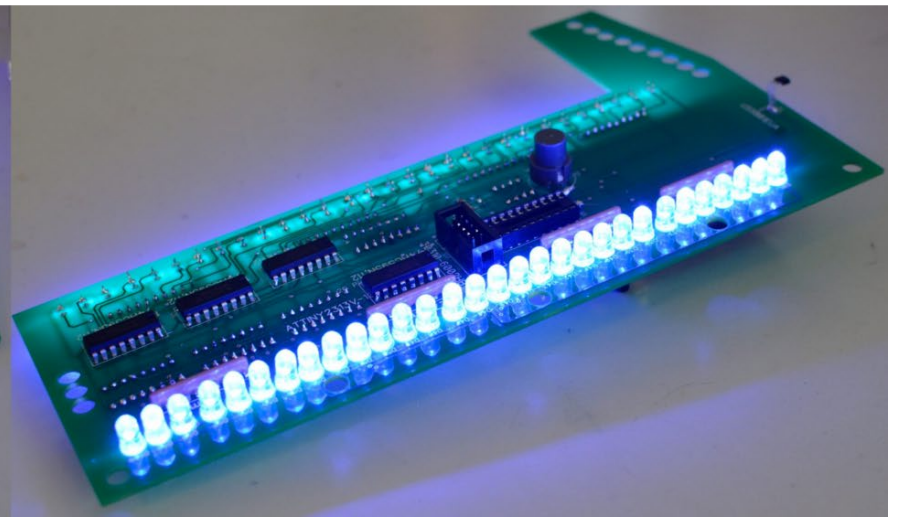
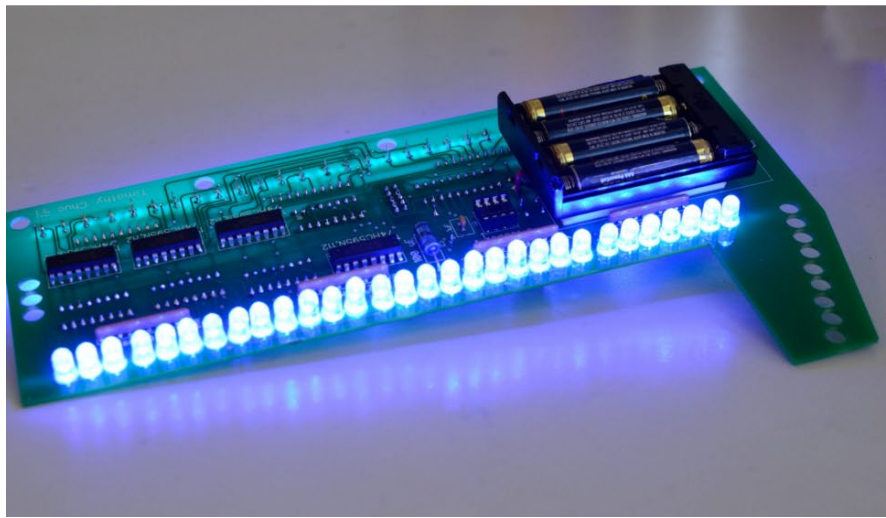
56Ω



AA x2



AAA x4

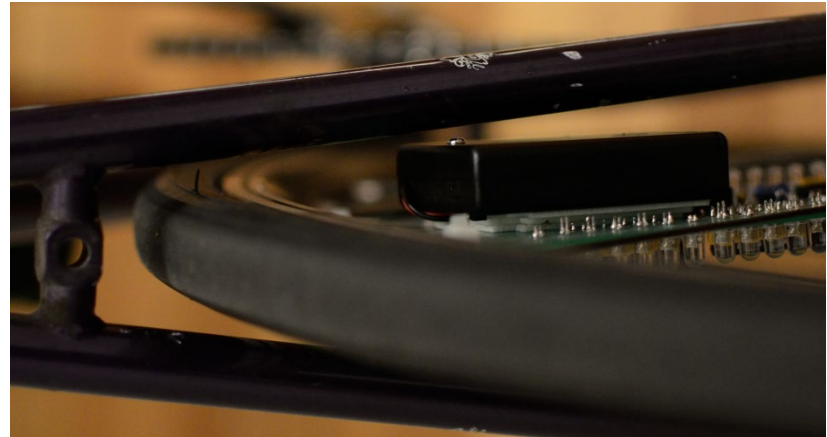


Demonstration

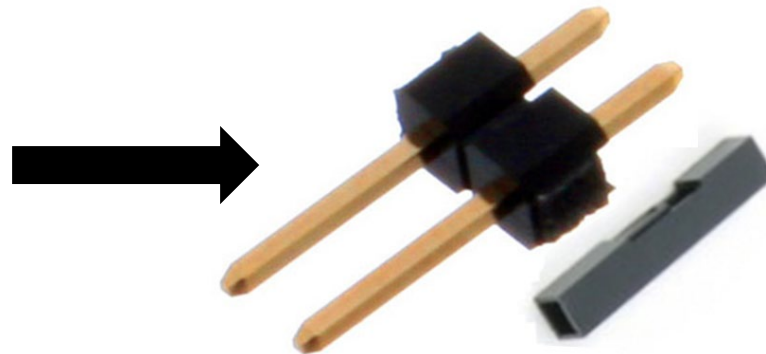
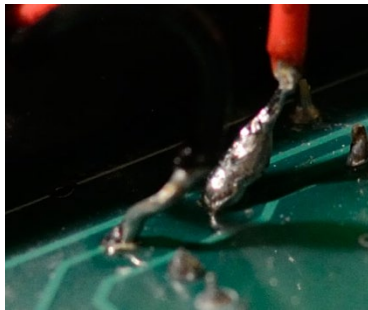


Considerations for Future Designs

- ⌘ Proper pad size & shape
- ⌘ Battery case size



- ⌘ Battery connection



Questions?

