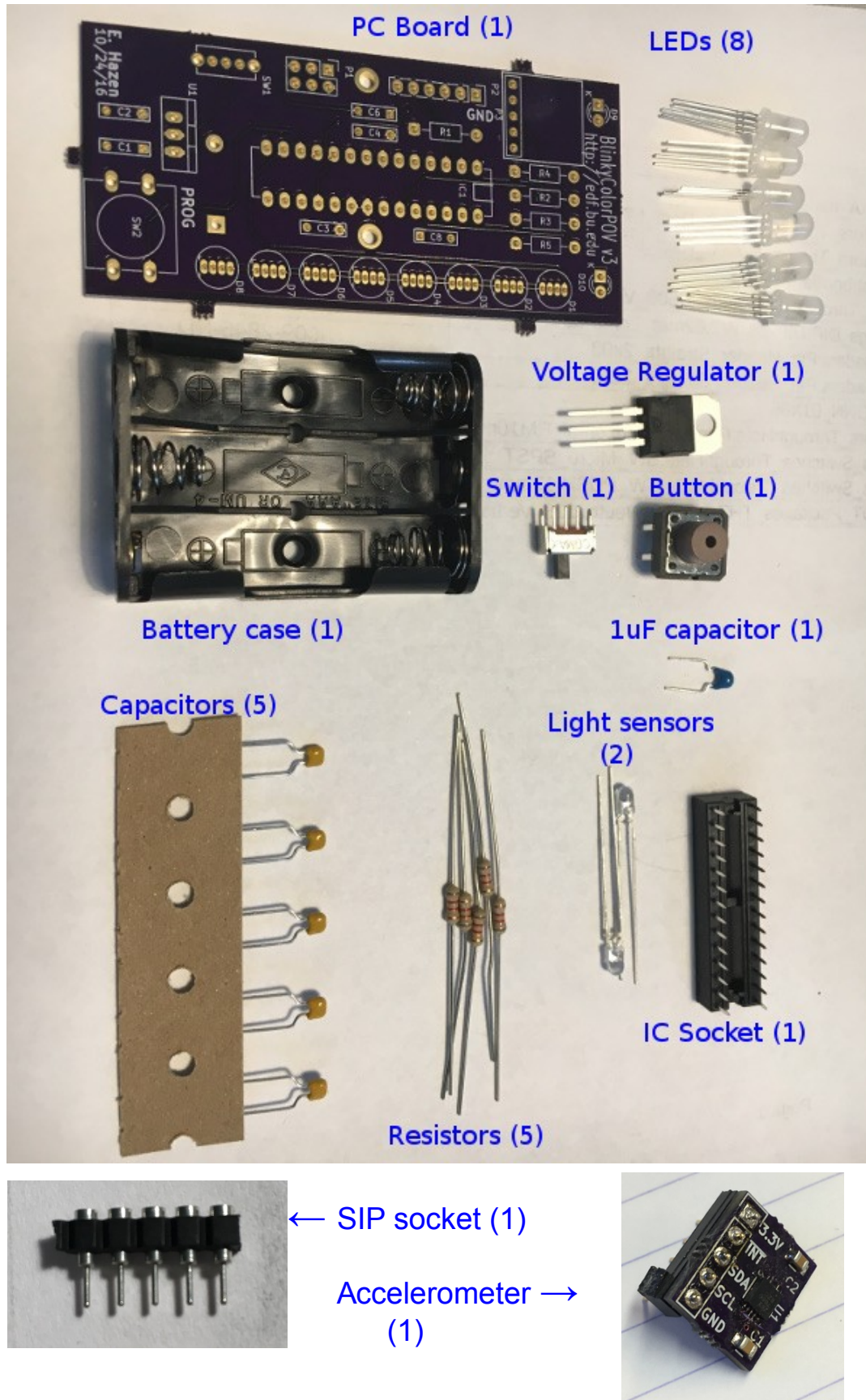


Blinky Color POV Parts

rev 3 Dec 2016

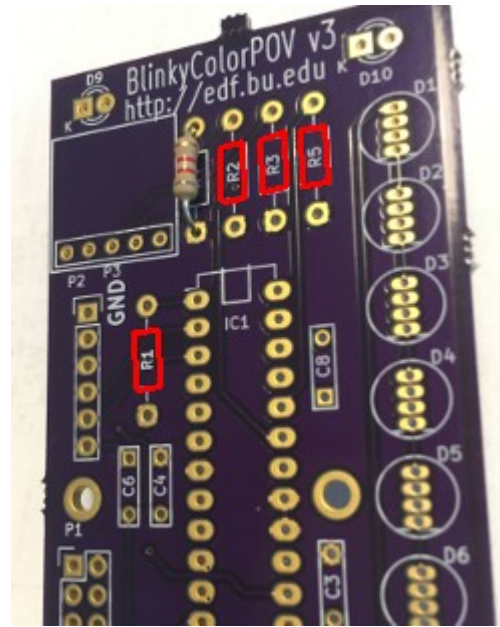
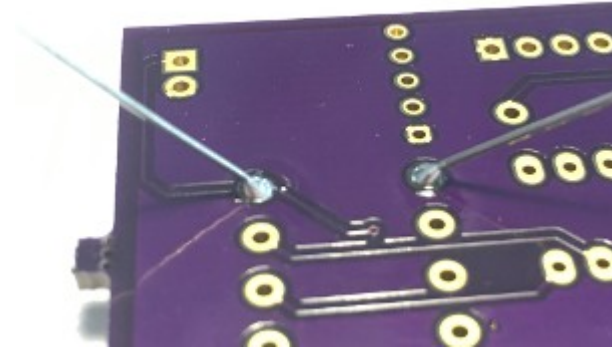
For programming, go to: <http://edf.bu.edu/pov>



1. Solder in the resistors

R1, R2, R3, R4, R5

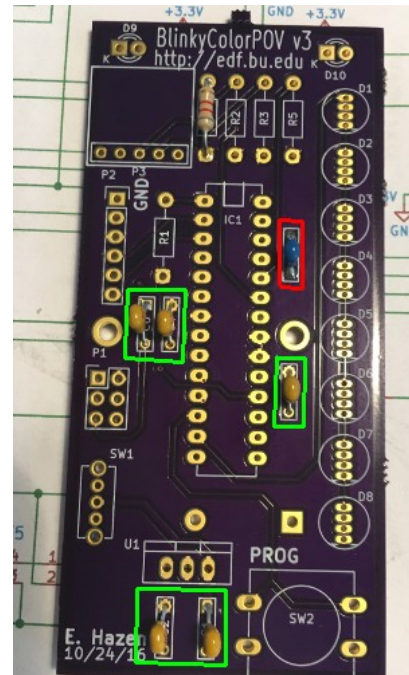
Bend the leads over on the back, solder and cut off the extra wire.



2. Solder in the capacitors

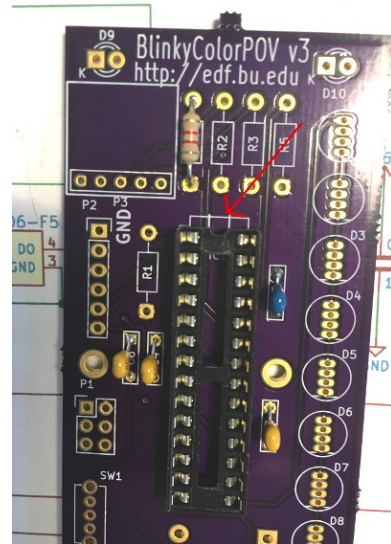
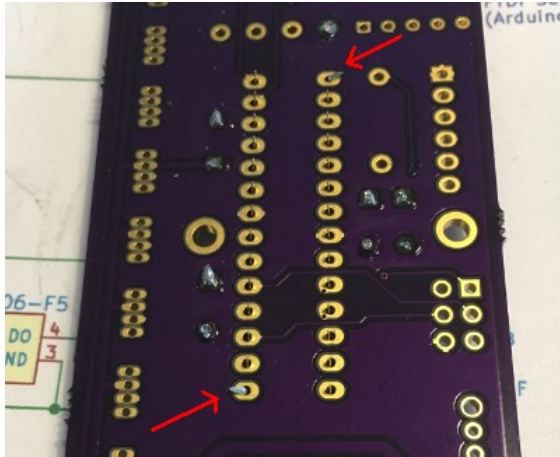
C8 is blue

The others (C1, C2, C3, C4, C6) are yellow



3. Solder in the IC socket

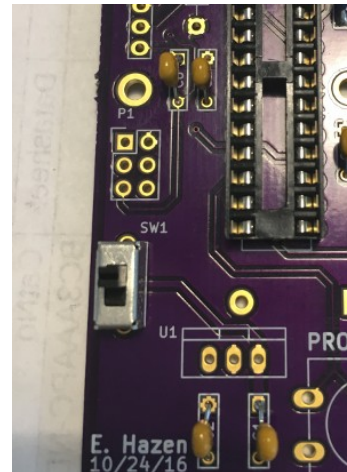
IC1 - bend over two corner pins on the back to keep it from falling out while you solder it.



Be sure the notch is the same way up as the mark on the board!

4. Solder in the power switch

SW1

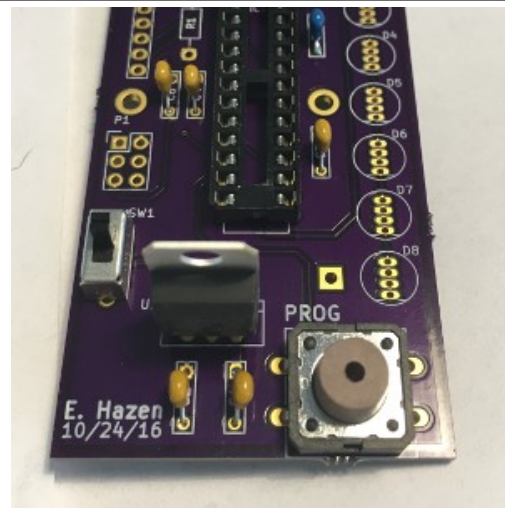


5. Solder in the Programming Button

PROG

6. Solder in the voltage regulator (be sure to put it the right way around)

U1



7. Solder in the light sensors (D9, D10)

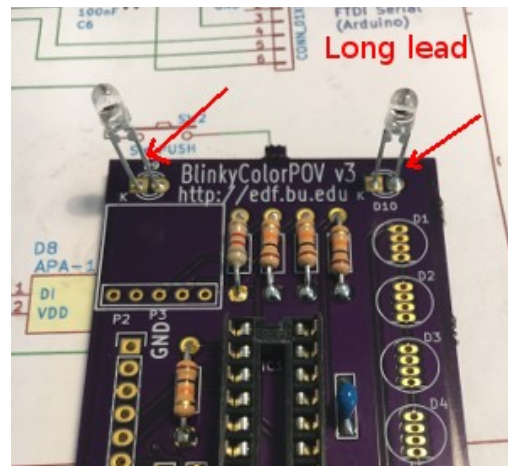
Bend them so they stick out and are about the same length, as shown



They have to go the right way around

The long lead goes in the round pad

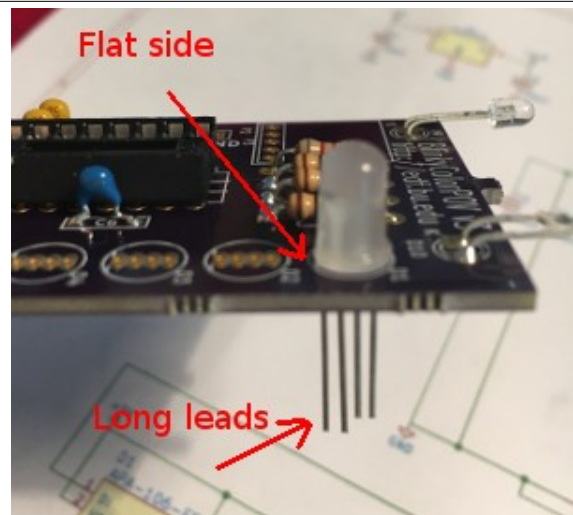
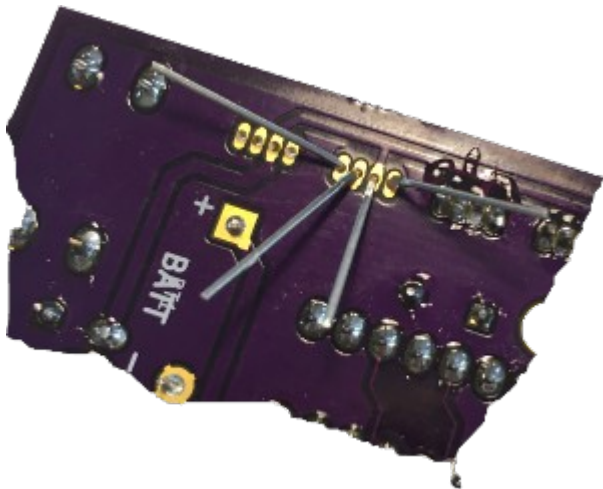
The short lead goes in the square pad



8. Solder in the LEDs (D1...D8)

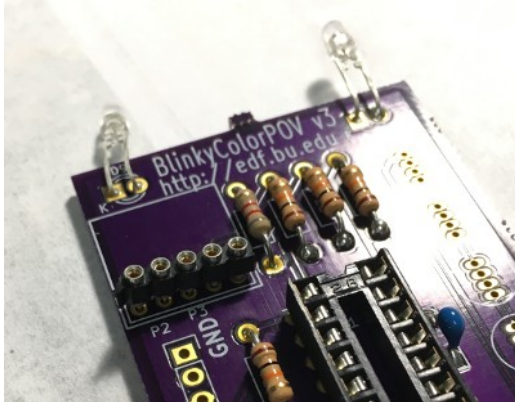
These are tricky. They have 4 leads, and they have to go the right way around.

Bend the leads apart, and be very careful when you solder them not to make any “solder bridges” between the pins.

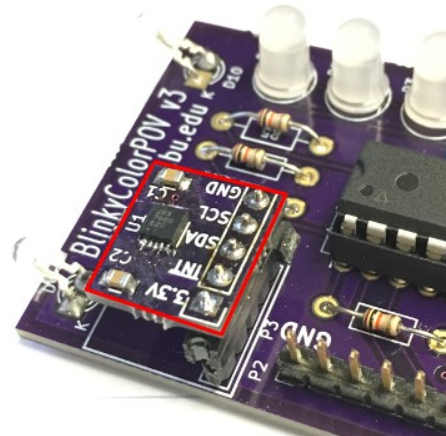


9. Install the SIP socket

P3 – This goes on the front next to the resistors.

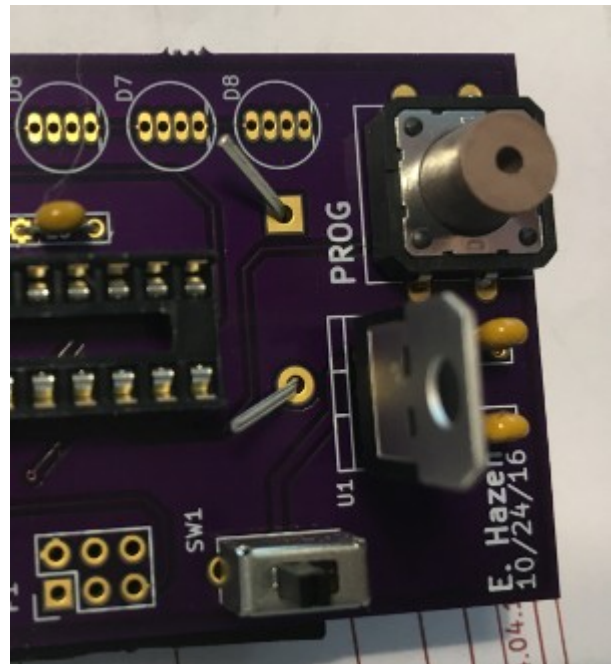
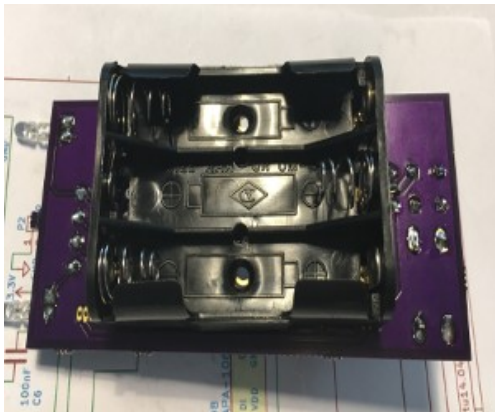


9a. Plug the accelerometer board into the socket



10. Install the battery holder

It goes on the back as shown. The two wires go in the holes marked Batt + and -. Solder the wires on the front where they poke thru the board.



You're done!

Inspect your work carefully, and get your helper to check it out, too.

Then, go ask for batteries and a microcontroller and you're ready to try out your BlinkyColorPOV!

For programming, go to: <http://edf.bu.edu/pov>