Angler Fish

nightmare of the fishy realm

(yellow, purple, brown, gold)

R1
(470R)

(brown, black, brown, gold)

R2
(100R)

LED
(blue)

LED
(orange)

Coin cell retainer

Butterfly clip and pin
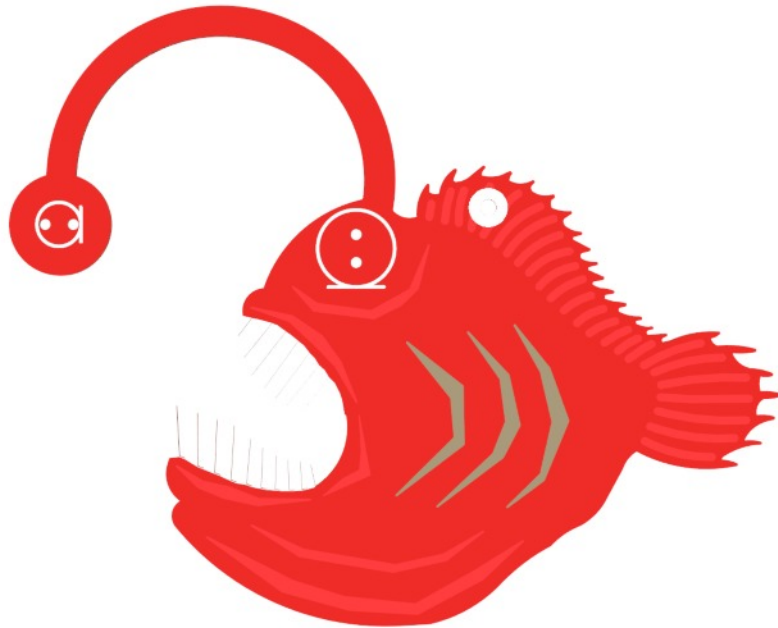
Circuit board

1. Identify the different components using the spotter chart.

2. Solder the resistors to the pads on the back side of the circuit board such that they fit within their symbols (R1 and R2). Clip their legs close to the solder joints. They can be fitted either way around. See image overleaf.

3. Fit the orange LED to the 'eye' and the blue LED to the 'lure' with the shorter leg into the hole with the line. The shorter leg also has a flattened edge on the rim.

   Bend the legs away from each other and solder them to the back side of the board then clip the legs close to each solder joint.

4. Add a small blob of solder to the middle of the large metal square on the back side of the board to help make a better connection with the coin cell. Spread the solder around a little with the soldering iron so it is not too high then fit the coin cell retainer to this same side of the board matching the marked outline. Solder the two tabs to the board using plenty of solder to make the joints physically strong. See image overleaf.

5. Insert a **CR2032** coin cell into the retainer with the positive (+) side uppermost. The LEDs should light up with the blue flashing.

6. Fit the pin through the hole in the board and then through your clothing. Use the butterfly clip to hold your badge securely in place. The pin can be soldered in place if you wish.

Angler Fish
v1.0

CR2032 3V

R1

R2

(c)

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