



THE TIGER BADGE

Soldering Tutorial



TAKE A GLANCE

The badge comes pre-soldered with some of the components like the battery holder and speaker IC.

Components to solder on Tiger PCB:

- 0.1 uF Capacitor
- 51 Ohm Resistor
- Push Button Switch
- 5mm Through-Hole LEDs
- Speaker module



ON THE BACK SIDE

Let's start by soldering the resistor and capacitor.

Both components do not have polarity thus, can be soldered in either direction.

The resistor goes at R1 and the capacitor at C1.

Solder the pads first then gently melt them and place the components.

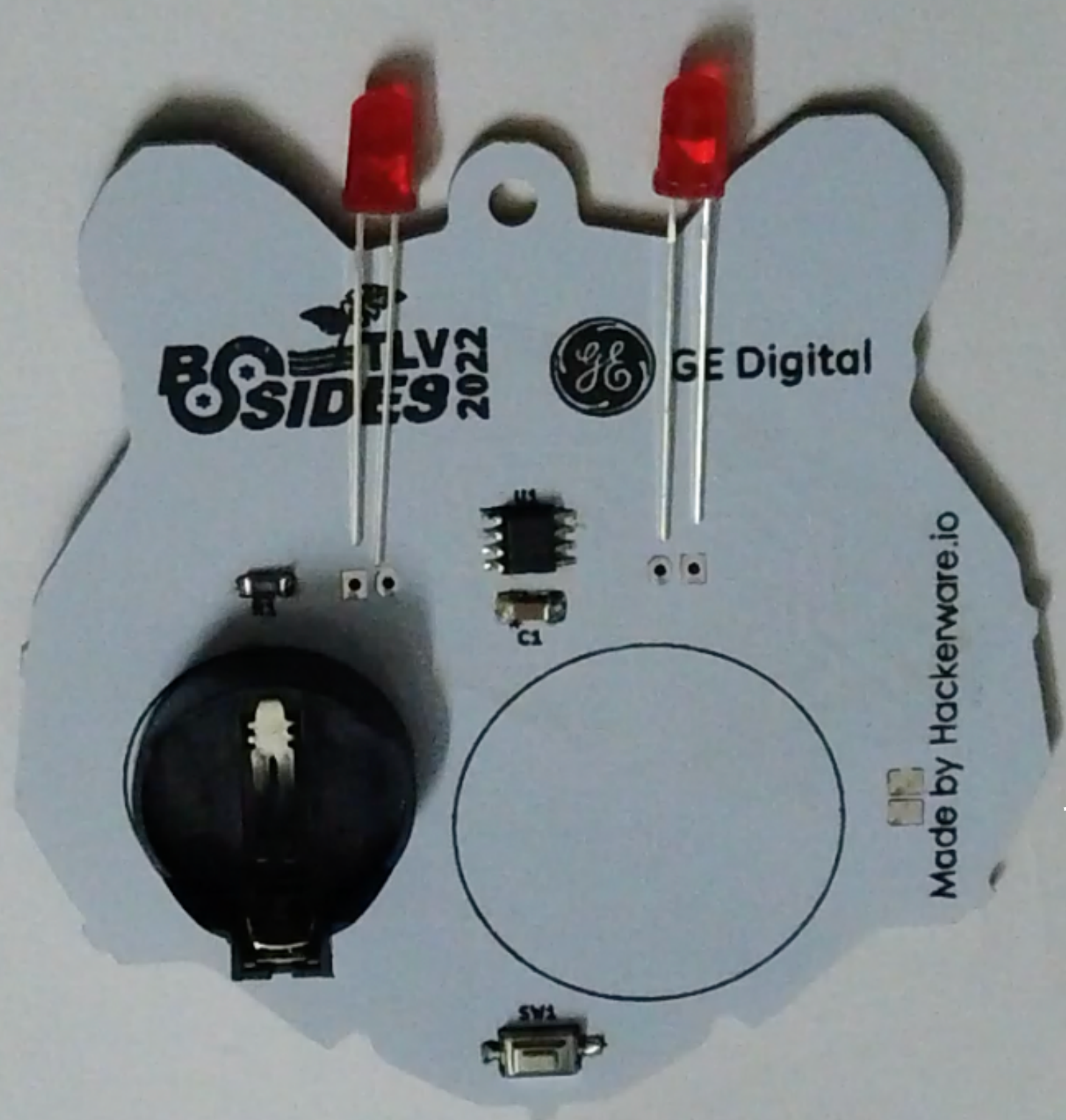


ON THE BACK SIDE

Now solder the tactile push-button switch on the bottom side denoted by SW1.

The switch does not have polarity thus, can be soldered in either direction.

Solder the pad first. Then melt it and gently place the switch on it.



ON THE FRONT SIDE

Let's solder the LED eyes. The LEDs have polarity thus, can be soldered in the right direction.

The longer lead is the positive side. The shorter lead is the negative side.

The longer positive lead goes in the circle pad while the shorter lead goes in the square pad.

Insert the LEDs from the front side and solder accordingly.



ON THE BACK SIDE

Cut and use the excess leftover leads from LEDs to solder the speaker module.

Bend the leads in Zigzag fashion.

Place one end on the speaker pads and solder them.

Gently place the speaker on the PCB backside and solder the other ends of the leads on the bottom left corner.



IT IS READY!

Insert the coin cell battery and done!

The Tiger should glow its eyes.

When the switch is pressed, the speaker should *do something*.