

AI Hacka Alpaca



Quantity	Description
2	RGB LEDs 5 mm
1	Push button
1	CR2032 battery holder
1	CR2032 battery (not included)
1	Sunglasses Board (PCB)
1	Alpaca Board (PCB)

Difficulty: ●●○○○ Build-Time: 30 – 60 Minutes

Manual v2.0  CC BY-SA 4.0 Binary Kitchen e.V.

Board v1.0  CC BY-SA 4.0 Timo Schindler @ blinkyparts.com

Safety Information

- ATTENTION: Not suitable for children under 3 years, choking hazard due to small parts that may be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these operating instructions in a safe place for later use! It contains important information.
- If the battery is empty, replace it only with a new battery with the same values.
- When soldering, the soldering iron, the solder and also the components being soldered become very hot.
- Always wear safety glasses when soldering and assembling the kit.
- Always use a fire proof soldering pad when soldering! This prevents the components from slipping away.
- To keep the soldering iron safe during assembly, always use a suitable soldering stand.
- The kit is designed for battery operation only.
- CAUTION: Never connect the kit to 230 V mains voltage! There is an absolute danger to life!
- Please take the device to appropriately certified disposal companies at the end of its service life. This is good for the environment and ensures correct disposal.
- Subject to changes and errors.

Disposal

This appliance is labelled in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The directive provides the legal framework for the take-back and recycling of waste equipment throughout the EU.

- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer or a recycling centre for reuse. Please ask your retailer or your local authority for the current disposal routes.

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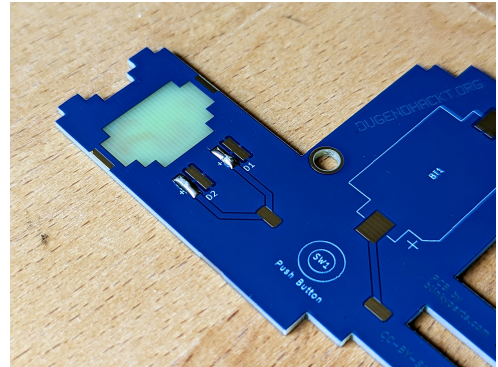
Step 1

- a) Check your components.
- b) A CR2032 battery is not included. You can buy it online or at larger electronics shops.



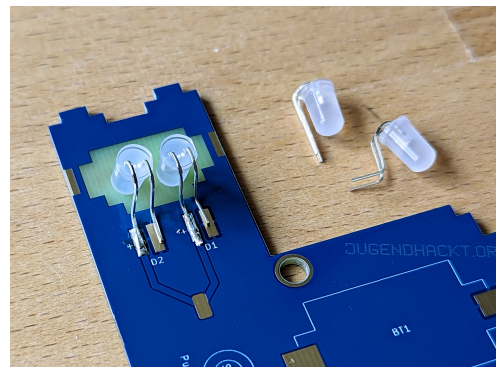
Step 2

- a) Turn the board upside down
- b) Add solder to the two long LED pads, marked with a +.



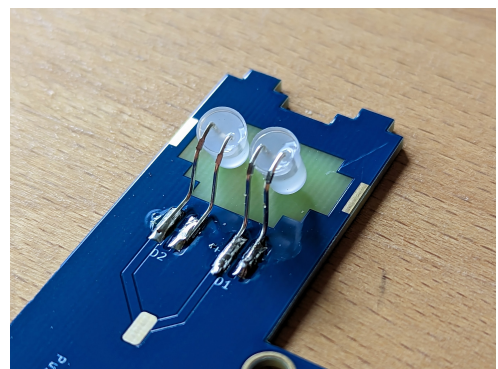
Step 3

- a) The long leg of the LED marks the positive side.
- b) Bend the legs so that the LED lies flat on the board and the legs also touch the board.
- c) Solder the positive leg (the long one) to the positive pad, on which you have already applied solder.
- d) Make sure, that the second leg also touches the other pad without solder.



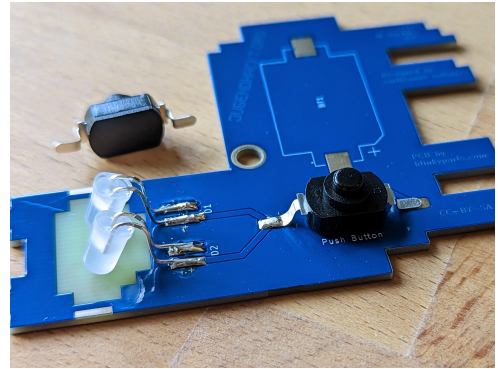
Step 4

- a) Solder the other leg of the LED (cathode, negative side) to the PCB.
- b) Cut off the excess of the legs.



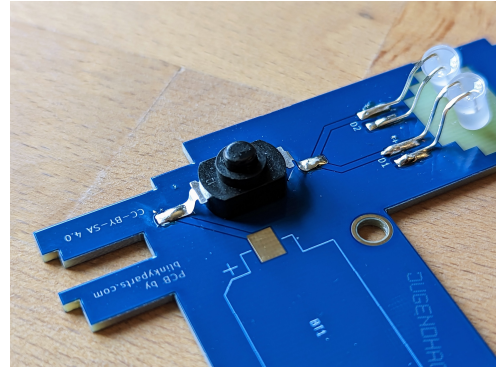
Step 5

- a) The push button has no direction.
- b) Put solder on one of the pads of the push button.
- c) Bend the legs of the push button so that the legs can touch the surface of the PCB.
- d) Heat the pad with solder again and push one leg of the push button from the side onto the pad.
- e) Make sure that the other leg of the push button touches the other pad.



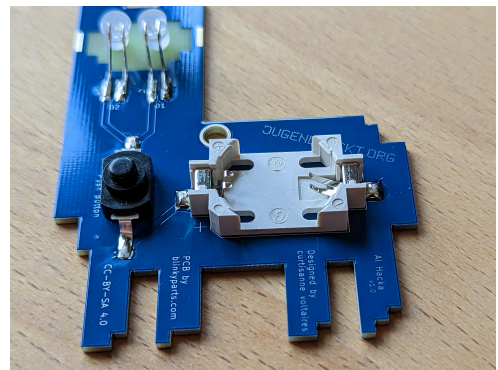
Step 6

- a) Solder the other leg of the push button to the PCB.



Step 7

- a) The battery holder has a direction, which is marked with a bevelled edge. The same bevelled edge is also printed on the PCB.
- b) Put solder on one pad of the battery holder
- c) Heat the pad with solder again and slide the battery holder onto the pad from the side.
- d) Make sure, that the other leg of the battery holder touches the other pad.
- e) Solder the other leg onto the other pad on the PCB.



Step 8

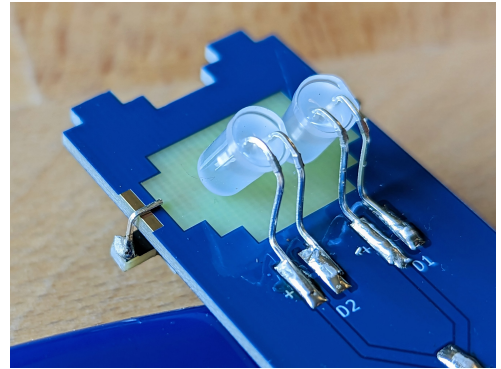
- a) Now take the sunglasses and two pieces of wire and bend them so that you have a frame.
- b) You can also solder the glasses directly without wire in the next step.



Step 9

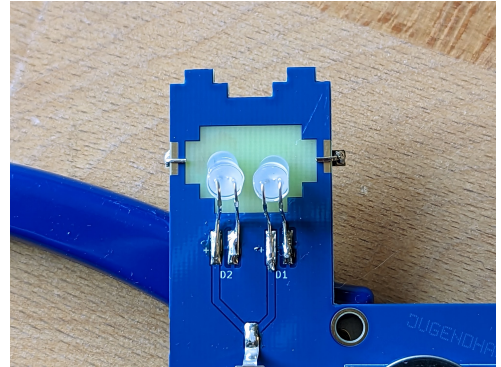
- a) Put the AI Hacka Alpaca on something, so that the head is floating in the air.
- b) Now hang the glasses over the head, so that the frame touches the golden spots on the side of the head.
- c) If you want to solder the glasses directly, put the glasses on a fireproof base and the AI Hacka Alpaca directly on top.

Solder the glasses.



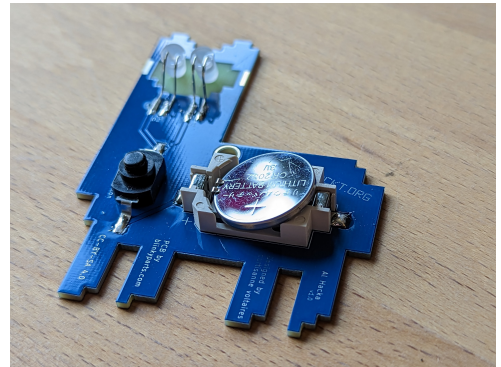
Step 10

- a) If you want, you can apply hot glue to the yellow part of the back of the board. This will spread the light better.



Step 11

- a) Insert the battery as shown
- b) the pick-ups on the positive side must touch the top of the battery. Slide the battery into the battery holder from the left and press down only the left side.



Step 12

- a) You are done!
- b) You can still attach a magnet to the battery, to better attach the soldering kit to your clothes.
- c) If you have a lanyard, you can use the hole to hang it up.

