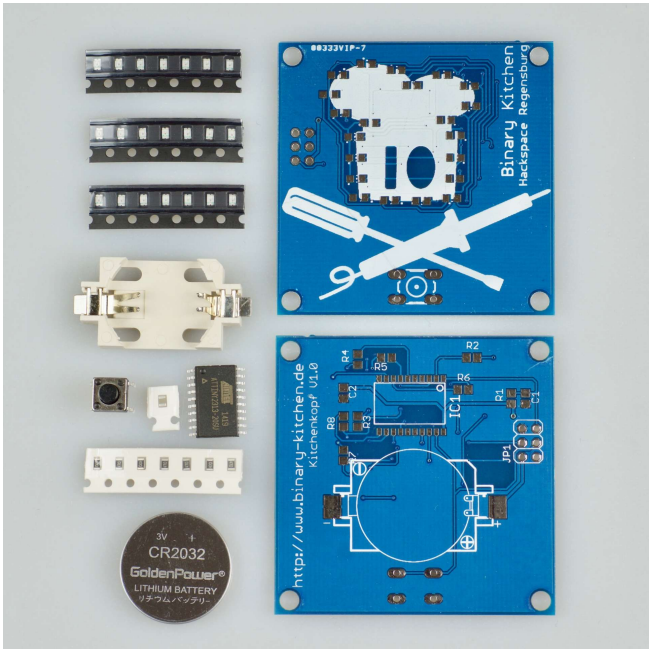
Kitchen Head (SMD)

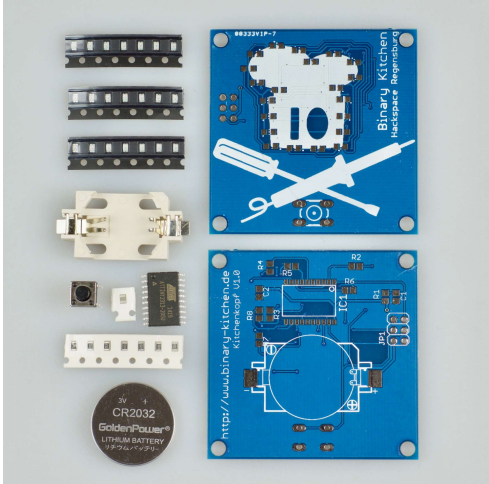


Quantity	Name	Description	Signing/Colorcode
1	C2	Ceramic Capacitor 100 nF	
1	IC1	Micro controller Atmel ATTiny 2313A	
21	LED1–LED21	LED SMD 0805	
7	R2–R8	Resistor 47 Ω	470
1	SW1	Button	
1	BAT1	Battery holder	
1	Battery CR2032		
1	Board		

Difficutly: ●●●●○

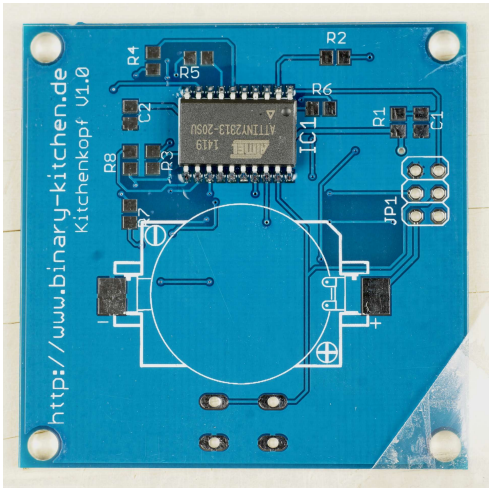
Step 1

a) Tape the board onto the soldering mat



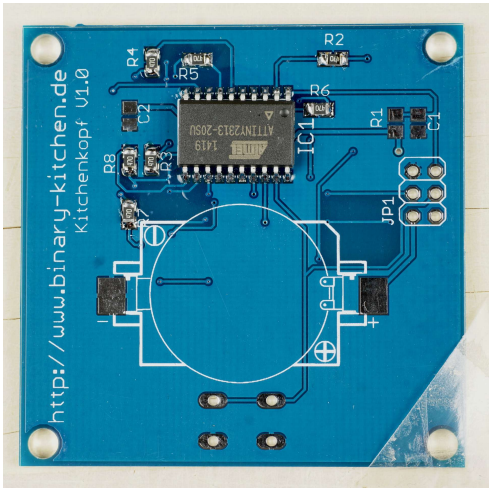
Step 2

a) Take IC1 up with a piece of tape. The tape should cover only half of the chip
b) Arrange and fix the IC to the correct position on the board
c) Careful - Direction is important: The small dot on the IC has to match with the dot on the board
d) Solder all pins of the IC to the Board
e) Take away the tape and fix the pins on the other side



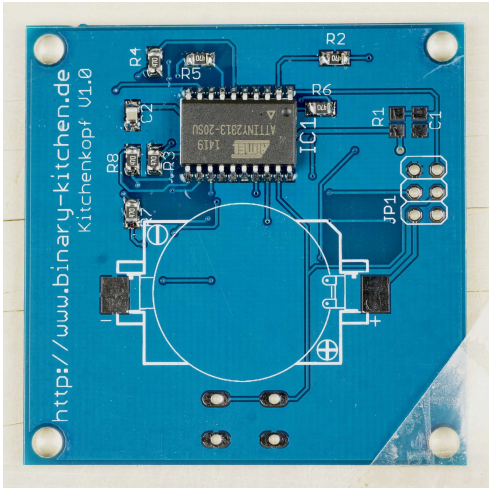
Step 3

a) Solder the resistors R2 to R8 on the board
b) To do so, put some solder on ONE pad
c) Heat up the solder again and slip the resistor onto the pad with the solder
d) Solder the other side after that



Step 4

a) Solder capacitor C2 with the technique showed before

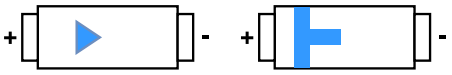


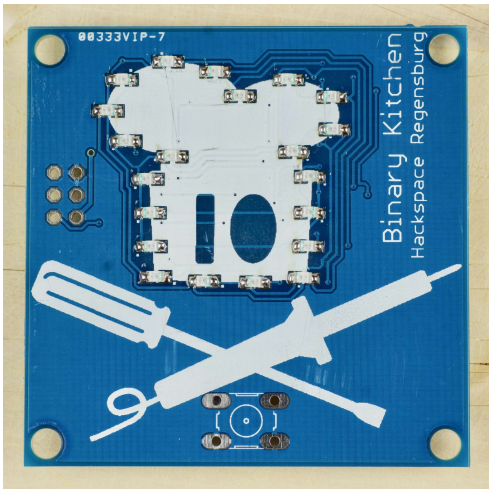
Step 5

a) *Be carefull!* The direction of the LEDs is important

b) Read everything first.

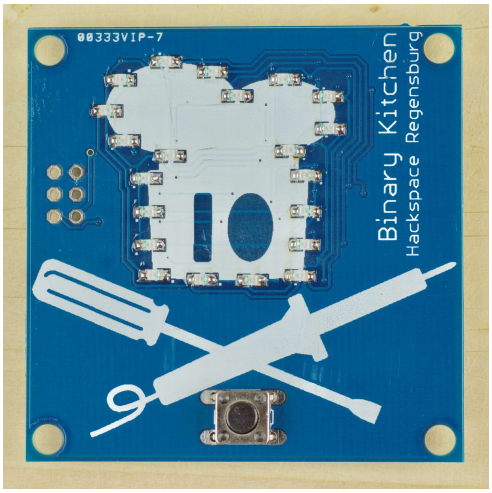
c) Solder the LED with the technique showed before. On the board are marking points or arrows printed on. The arrows and ponts are marking the minus pole. Also an arrow or an T is printed on the backside of the LED. The vertical line of the T has to end at the point of the arrow. (See pictures)





Step 6

a) Solder switch S1 to the board



Step 7

a) Solder the battery holder to the board
b) For this, turn around the board
c) Battery holder and board have a + printed on. They have to match
d) Note: Start with the plus pole
e) Now insert battery and push the switch
f) Be careful: One metal arm of the battery holder has to reach on the top side (see picture)