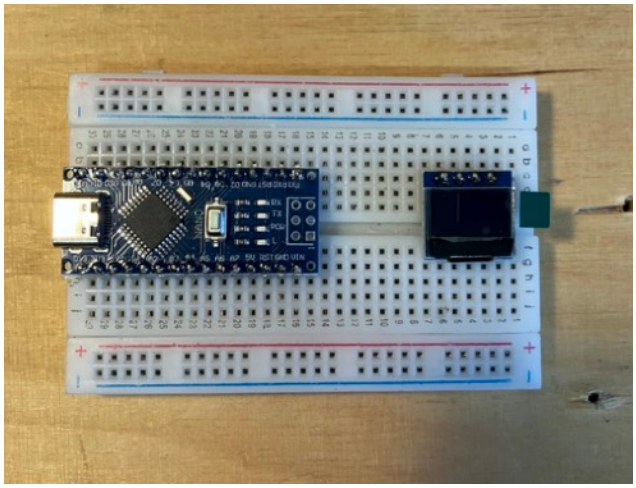
Rob Heel - Quad Mod build guide

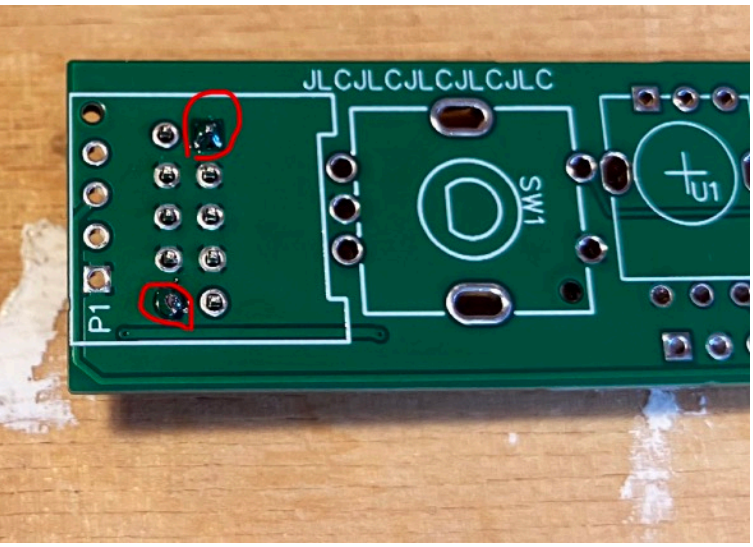
bom

JK1, JK2, JK3, JK4	mono 3.5 mm jack socket THONKICONN style	4	
U1, U2, U3, U4	Song Huei / ALPHA 9MM VERTICAL 10K Lin	4	
P1	0.49 OLED SSD1306	1	
SW1	E11 Encoder 20mm	1	
U5	Arduino Nano	1	
	Female Header 15 pin	2	
J2	Male Header 5 pin	2	
	Nuts	4	
	Enc Nut	1	
	Enc Washer	1	
	Enc Cap/ knob	1	

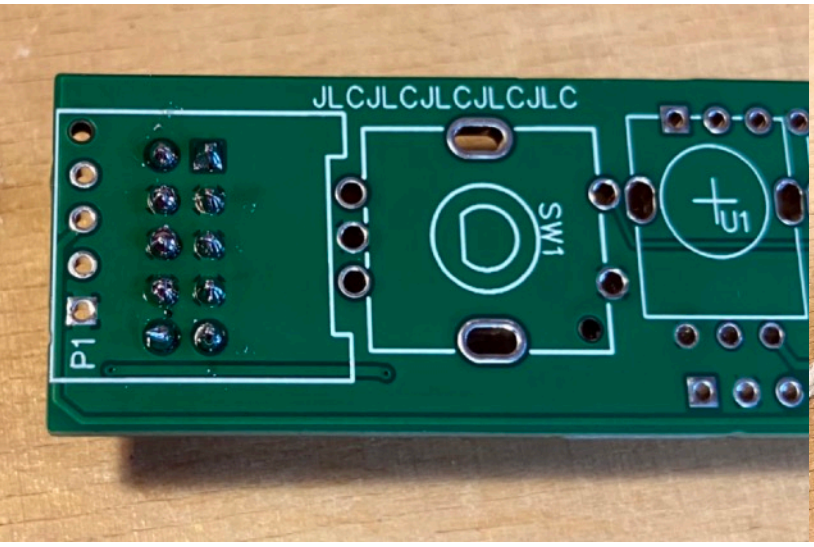
Start by soldering pins to the Arduino Nano and the Oled screen, if the pins are not soldered. It is best to plug the header in a breadboard and then solder the pins.

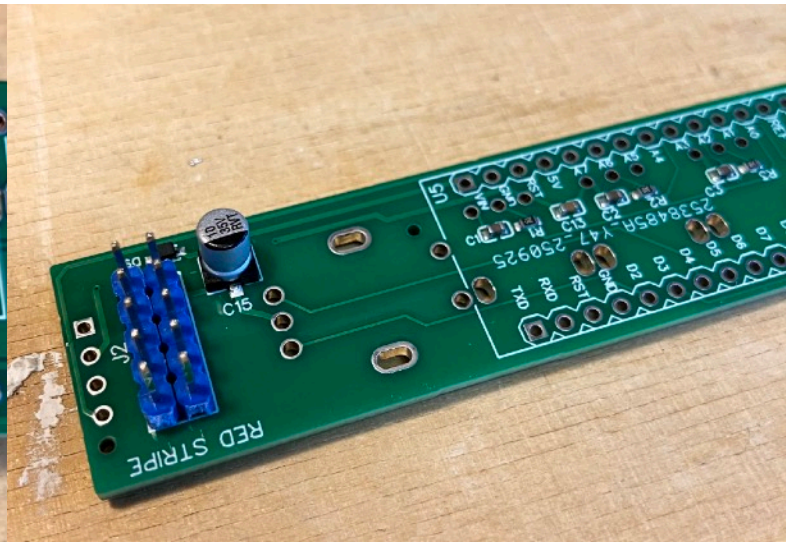


Next plug the 2 x 5 male pins with the short ends through the pcb holes. First solder two outer pins, flip and check if everything fits flush.

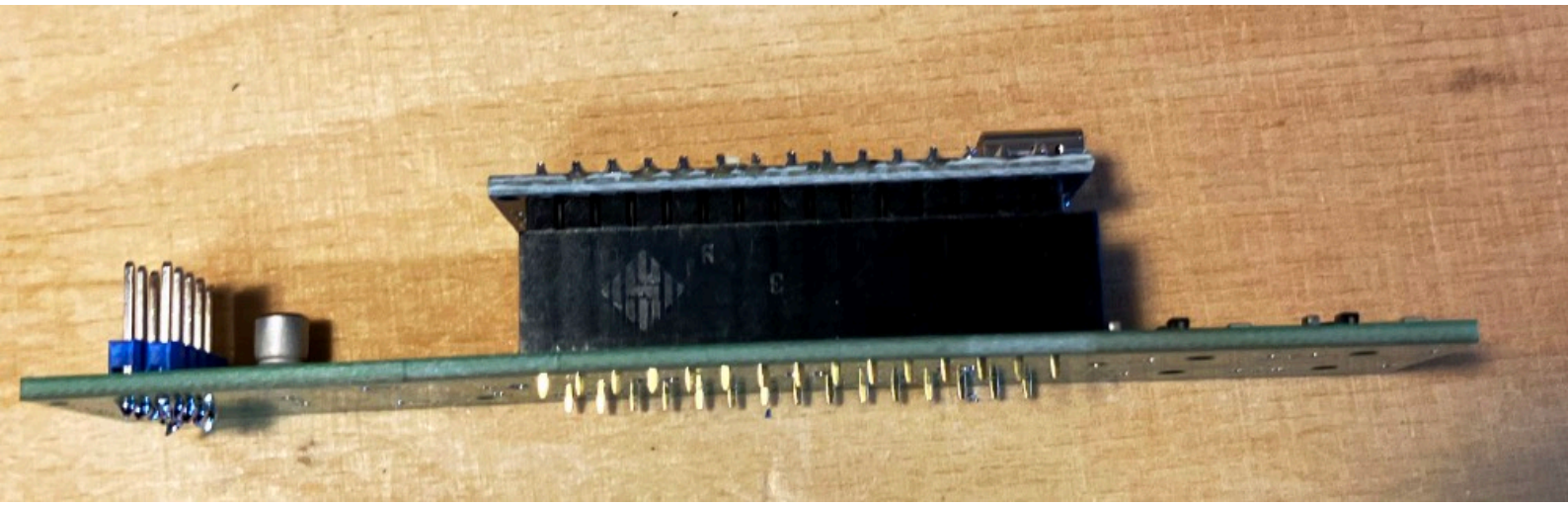


Then solder the other pins

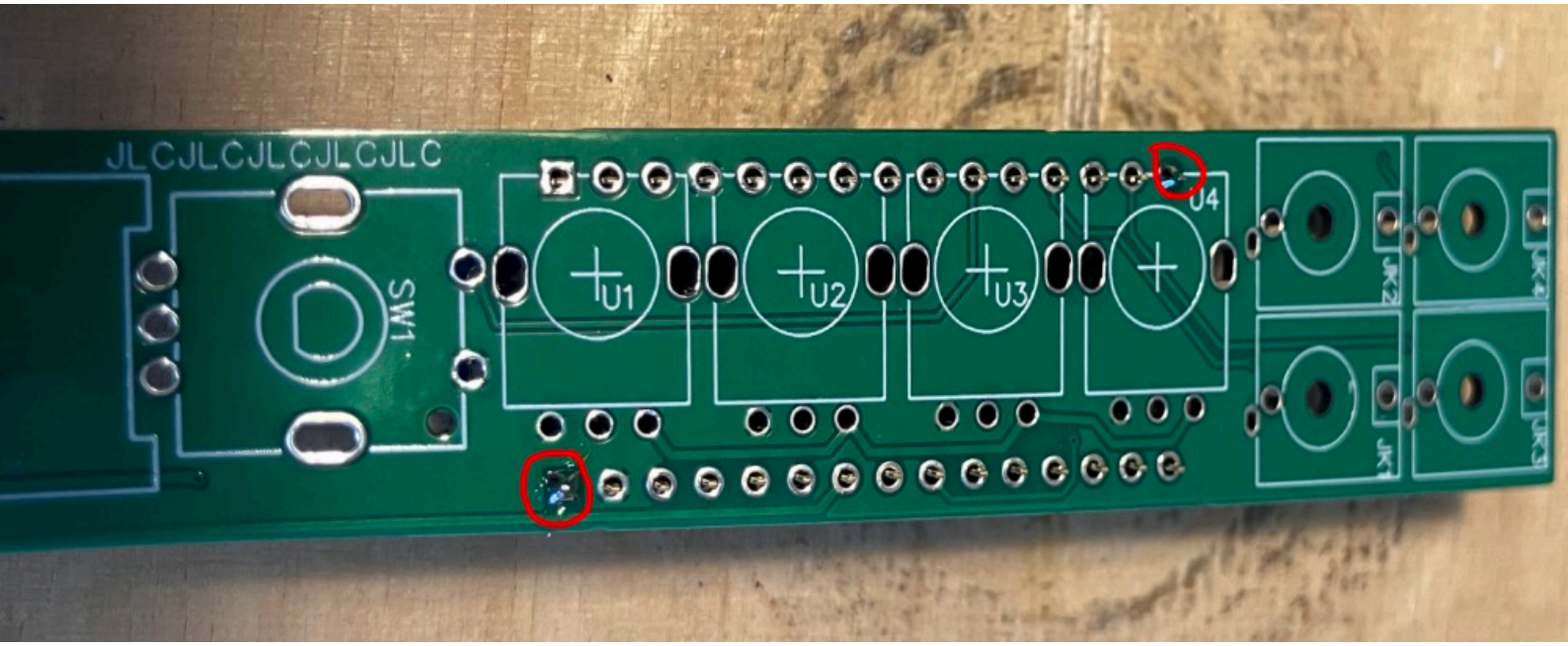


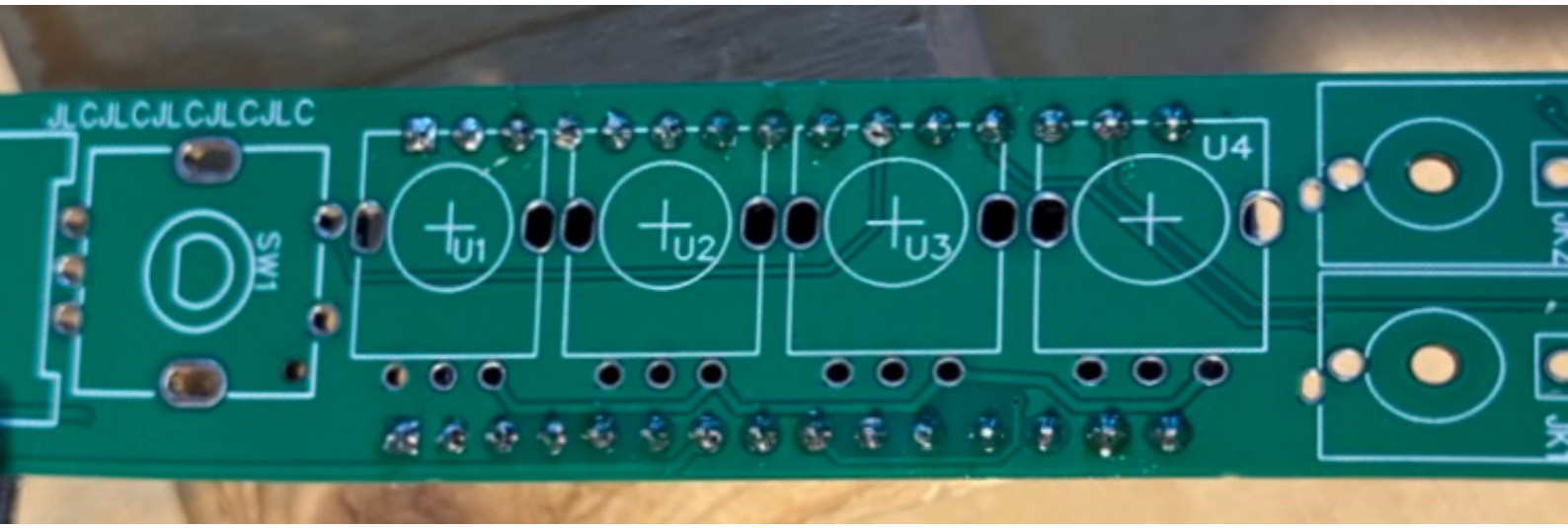


Push the Arduino in the female headers and push headers through the pcb holes.

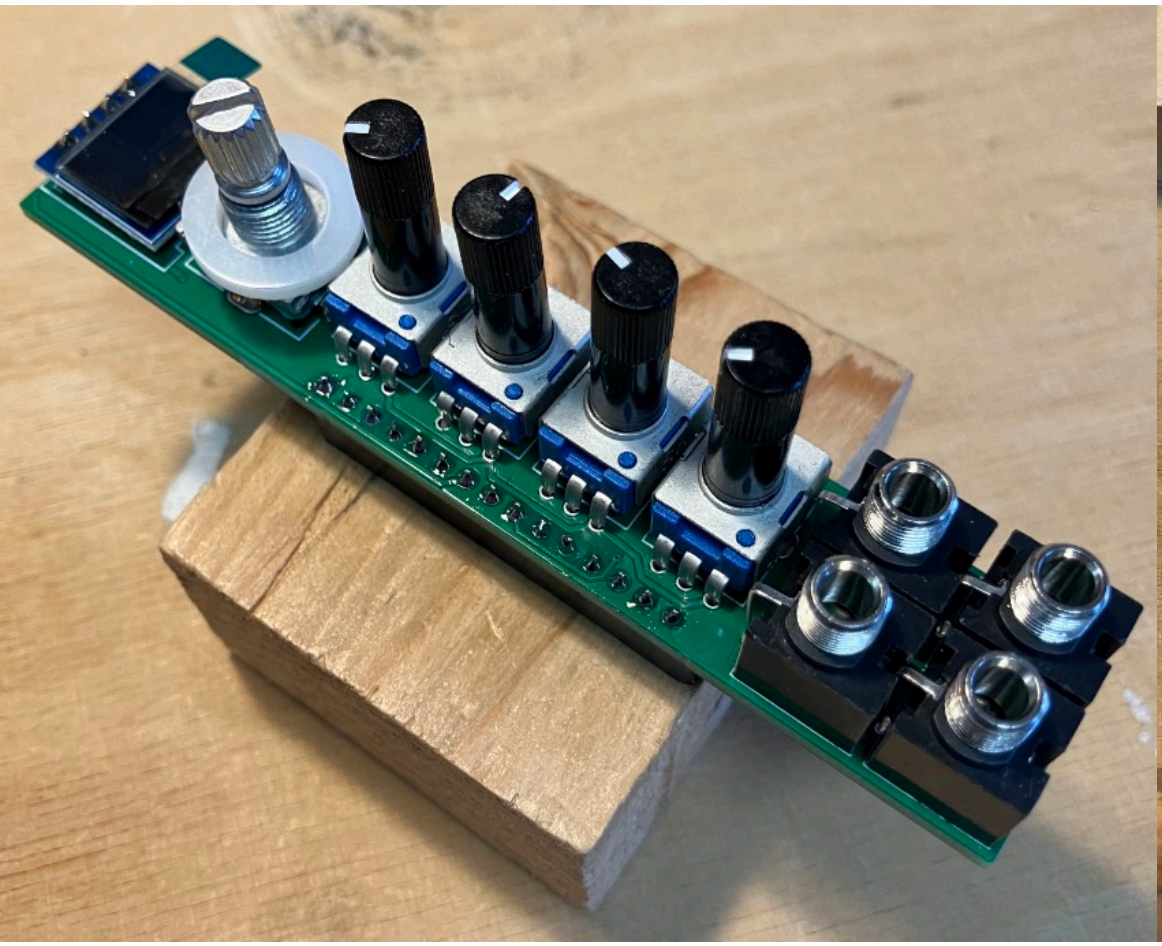


Solder the two most outer pins first, check alignment, then solder the other pins.





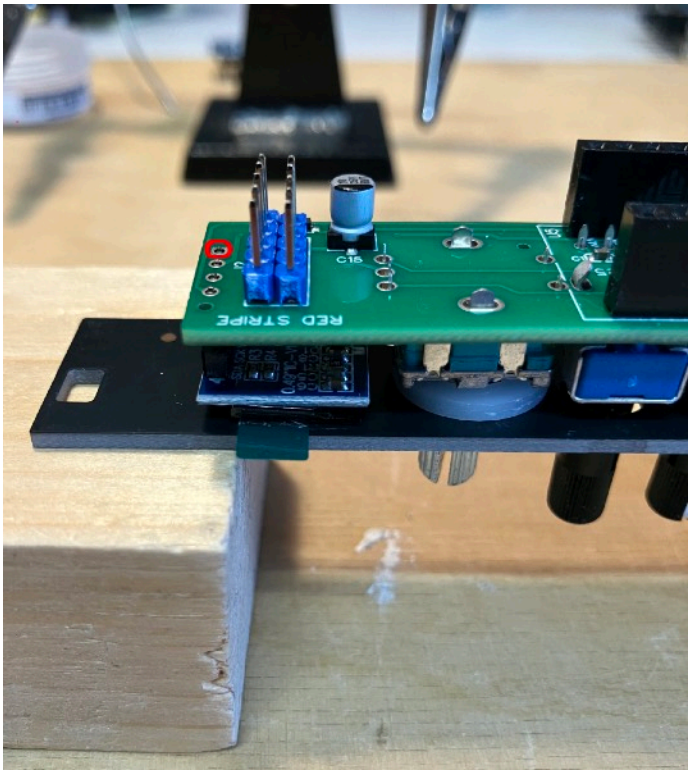
Flip the pcb over, install jacks, pots, encoder and oled. Put spacer on encoder and place front panel on top. Hand tighten the nuts on jacks and encoder.

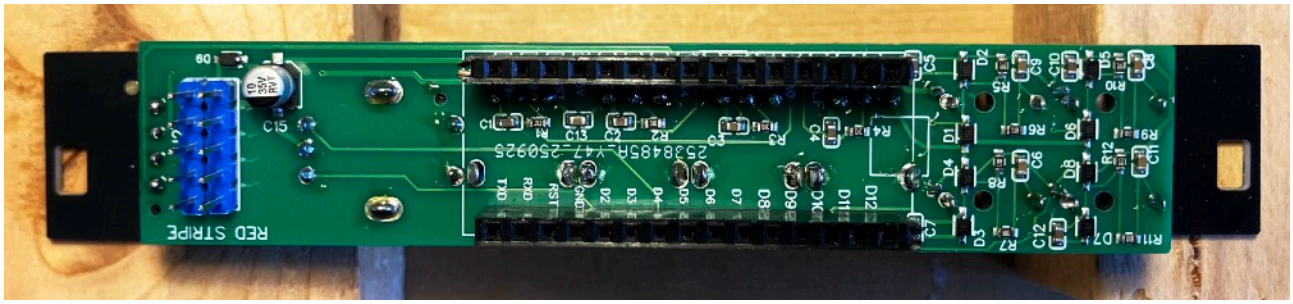


Start with soldering the oled.
Adjust position, solder one pin only.
Check alignment, then solder the rest of the oled pins.

Then solder encoder, pots and jacks.

Pay attention not to touch smd parts with your soldering iron.
The pre installed smd parts are tight, so take your time :)





After you soldered all joints you can install the arduino (match orientation to silkscreen) and attach the cap to the encoder.

And you are done.

Congratulations!
Happy patching.