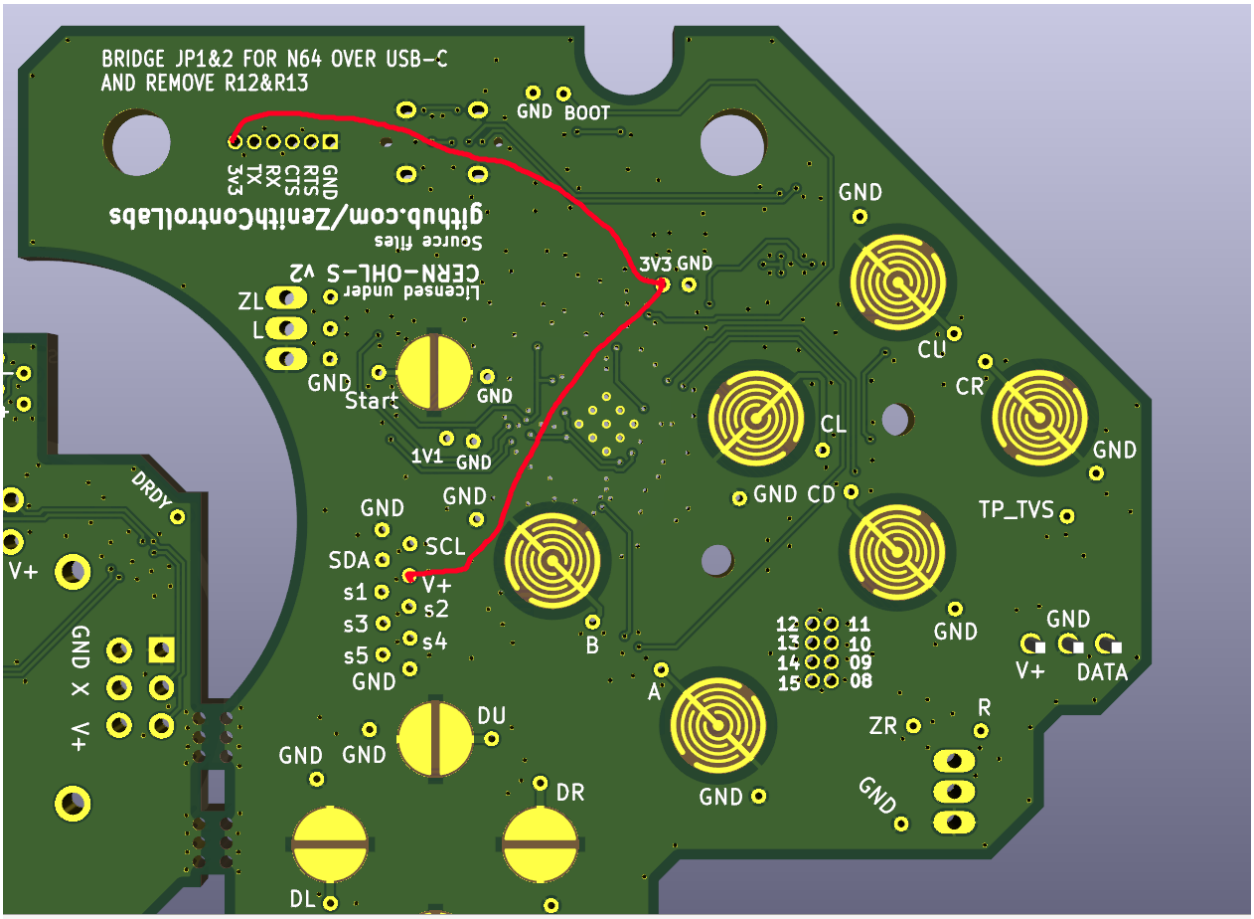
Mainboard

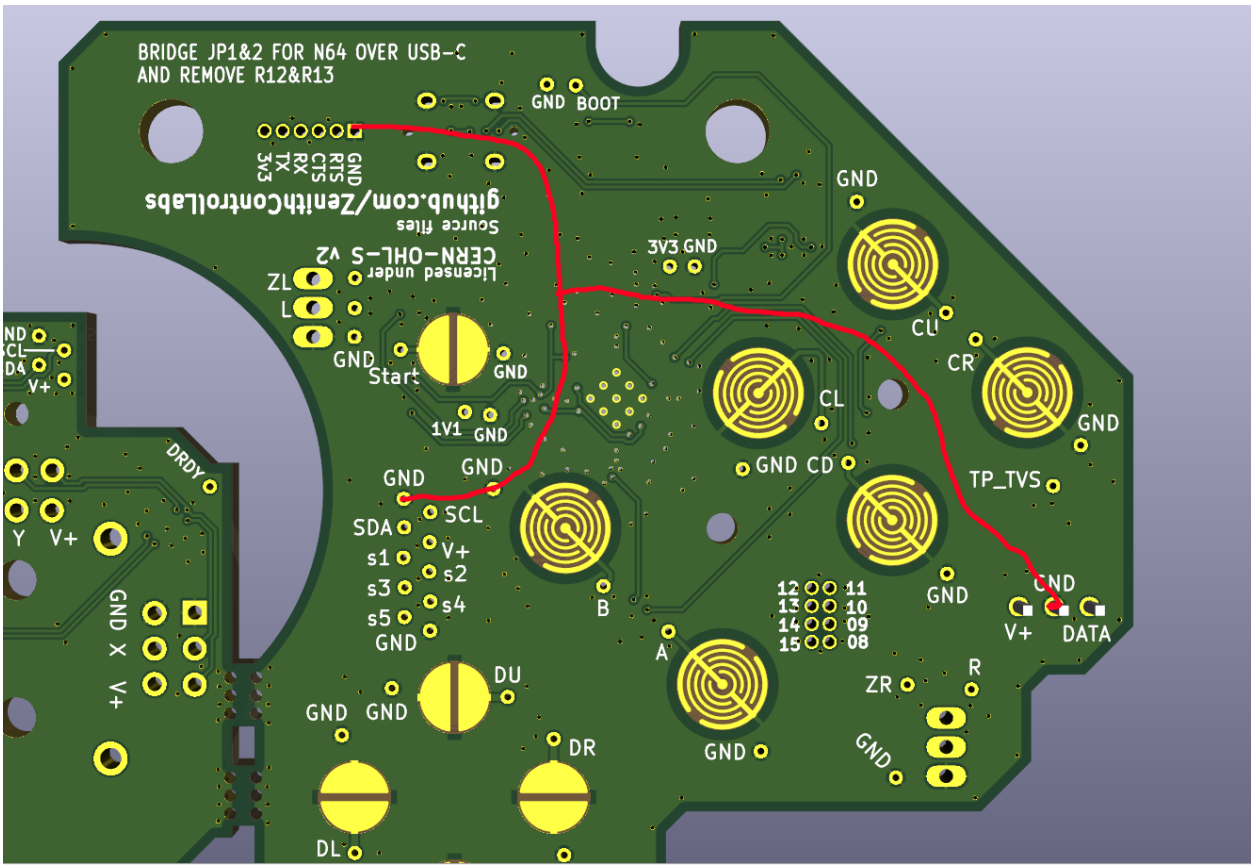
Continuity test

Check continuity between points in the two images:

3.3V net (image of bottom side)

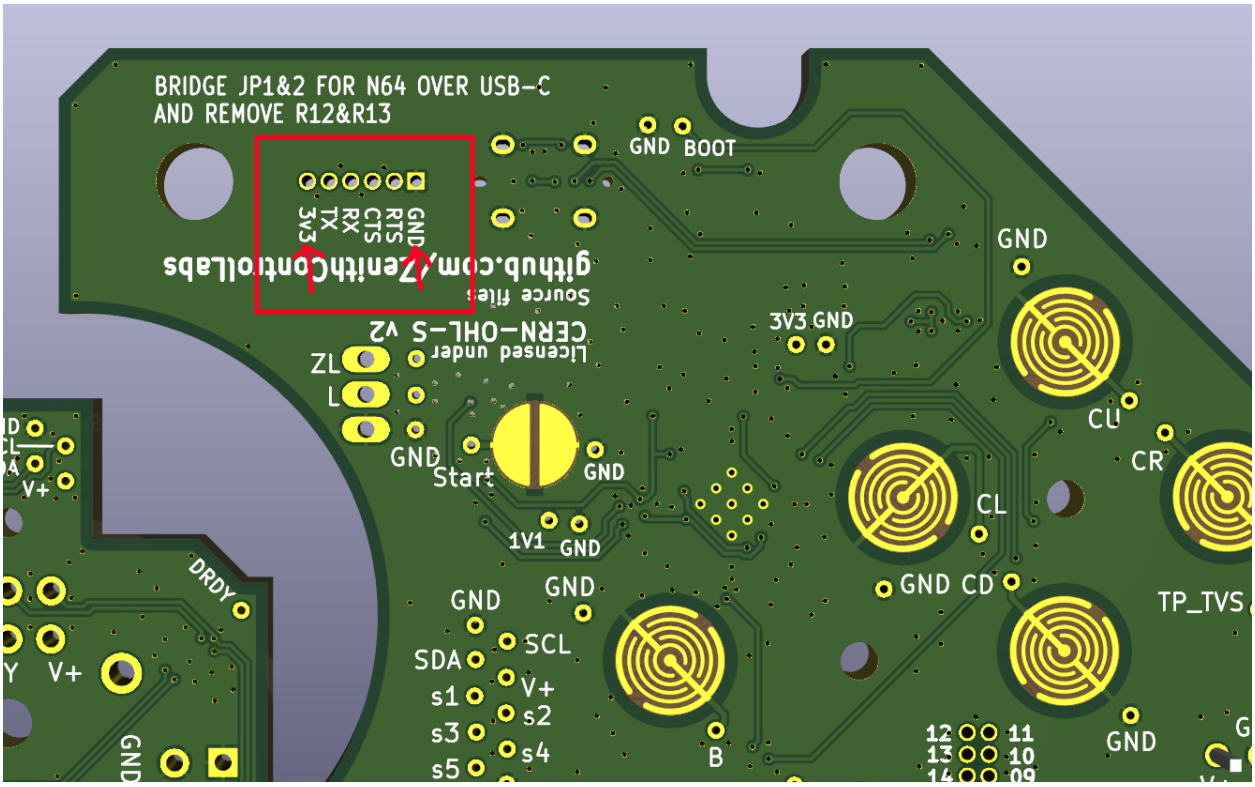


GND net (image of bottom side)



Smoke test

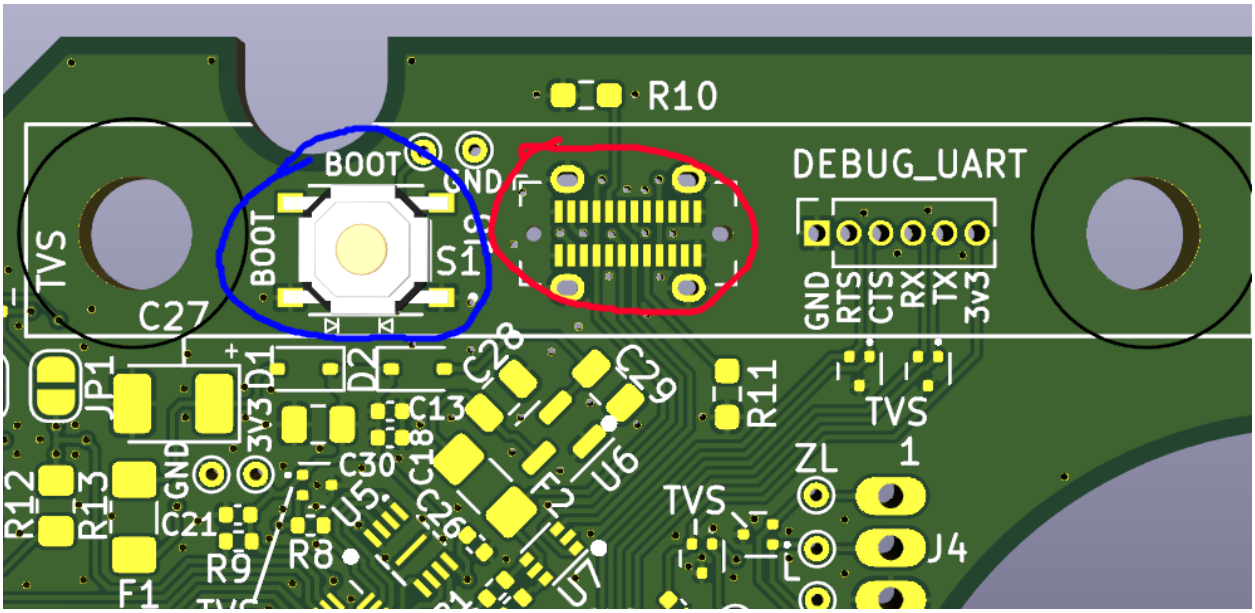
Supply 3.3V power to the 3v3 pin and GND pin at the highlighted test points. Verify all boards behave "normally": no magic smoke, draws nonzero current, does not draw more than 1A. Components may be warm but should not be hot to touch after running for any amount of time.



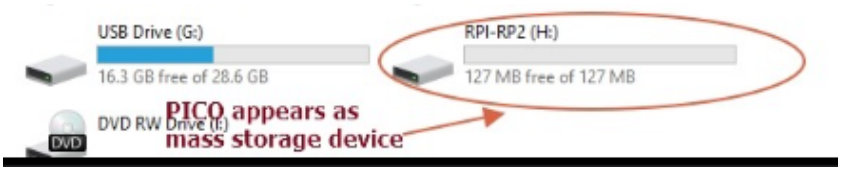
USB test (if possible)

Ensure the board is not powered through the test points for this test.

Hold down BOOT button highlighted in blue below. Plug in a USB-C cable from the vertical header which would be populated in the area highlighted in red to a computer. Let go of BOOT after plugging in USB-C.



A flash drive should appear labeled RPI-RP2, like so:



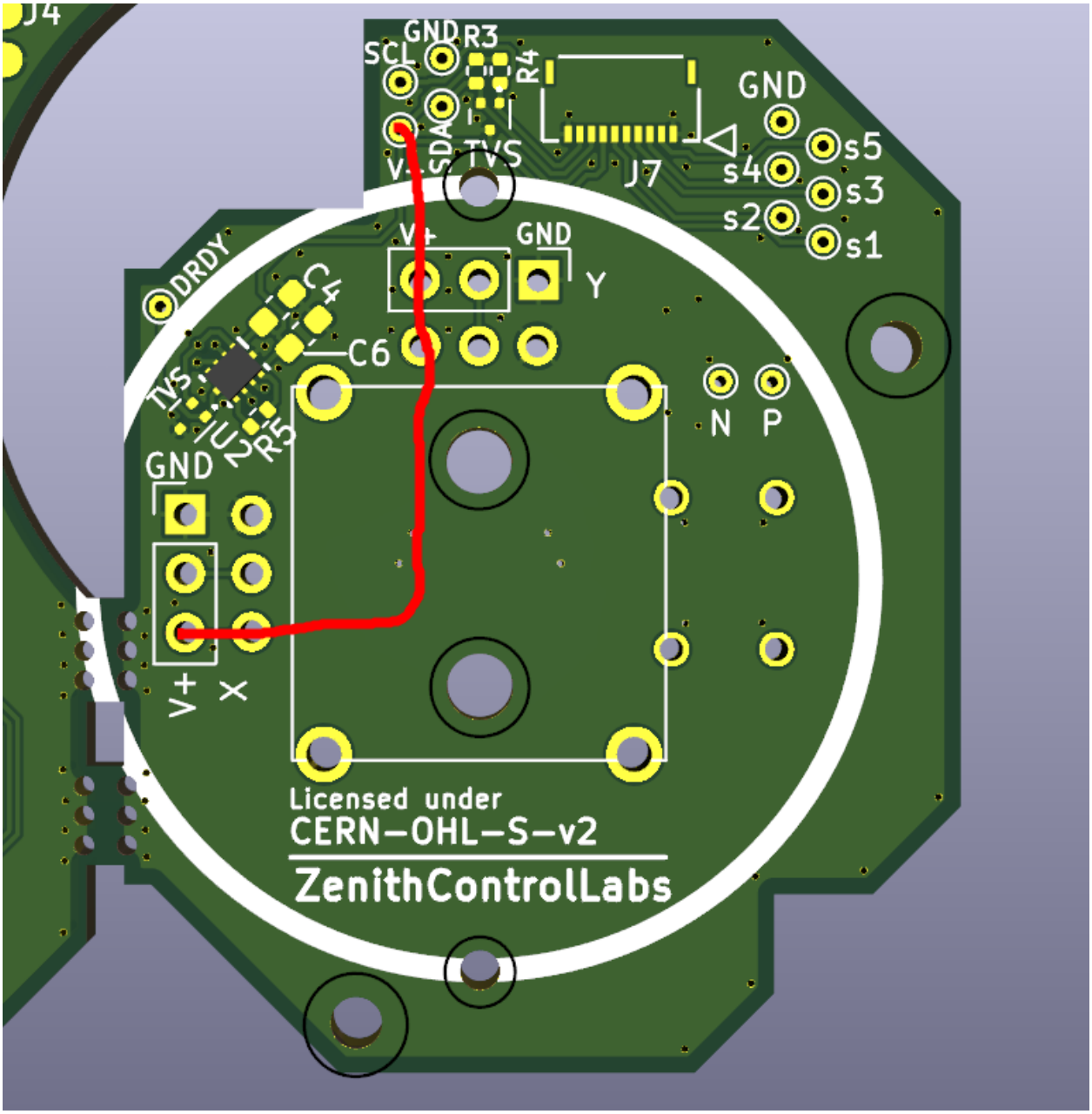
Test passes if this is the case. The USB-C can be unplugged safely.

Stick Board

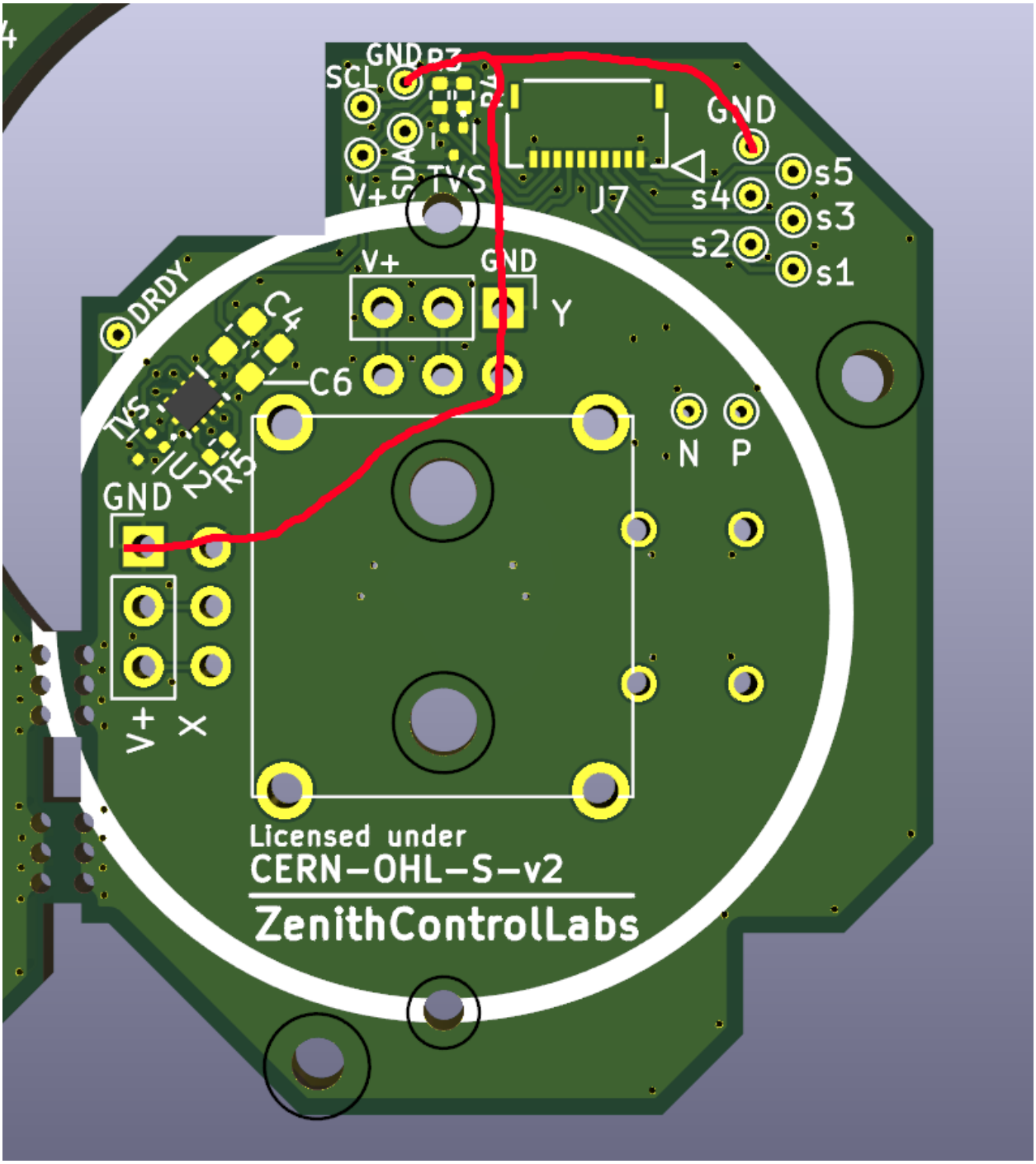
Continuity test

Check continuity between points connected in the two images:

3.3V net

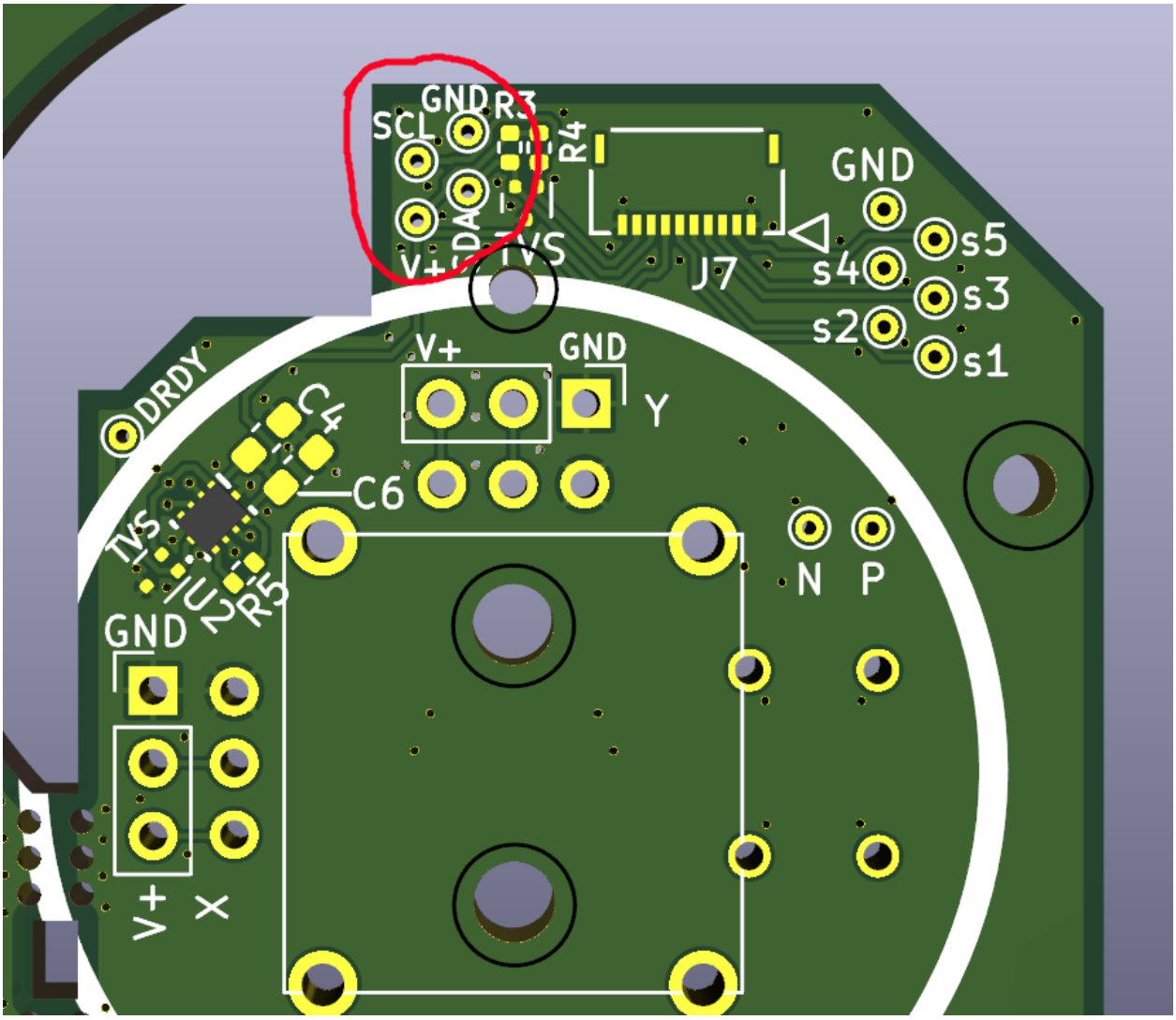

J4
GND
R3
SCL
R4
GND
SDA
TVS
J7
s5
s4
s3
s2
s1
V+
GND
Y
DRDY
C4
C6
TVS
U2
R5
N
P
GND
V+
X
Licensed under
CERN-OHL-S-v2
ZenithControlLabs

GND net



Smoke test

Supply 3.3V power to the V+ pin and the GND pin at the highlighted test points. Verify all boards behave "normally": no magic smoke, draws nonzero current, does not draw more than 1A. Components may be warm but should not be hot to touch after running for any amount of time.


GND
R3
SCL
R4
GND
DA
V+
TVS
J7
s5
s4
s3
s2
s1
V+
GND
Y
DRDY
C4
C6
TVS
U2
R5
N
P
GND
V+
X