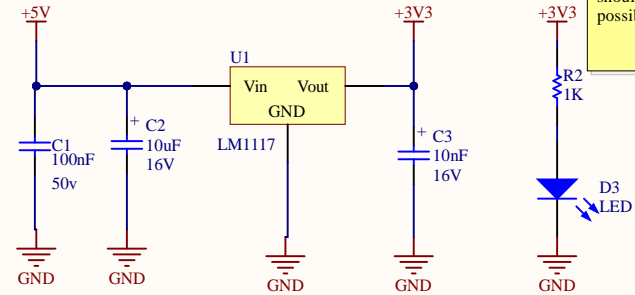
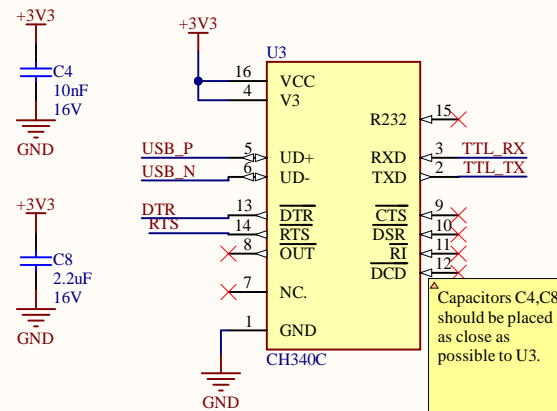
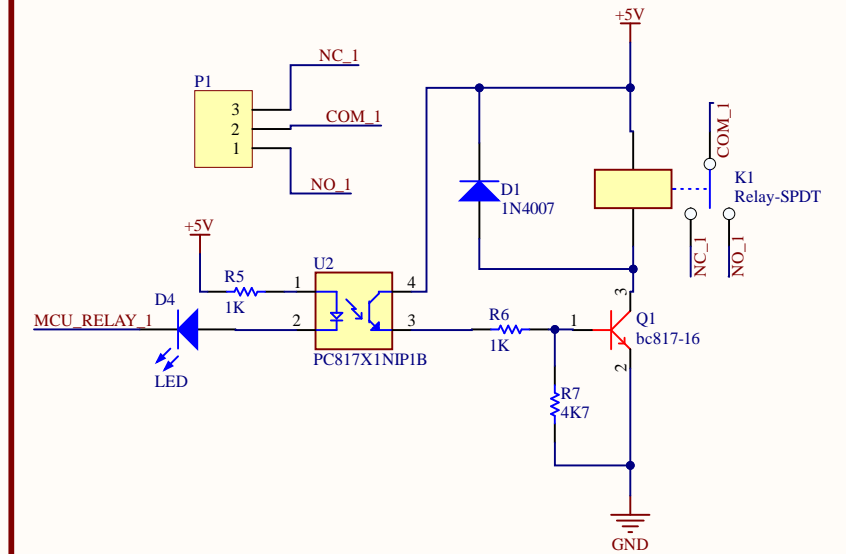


USB



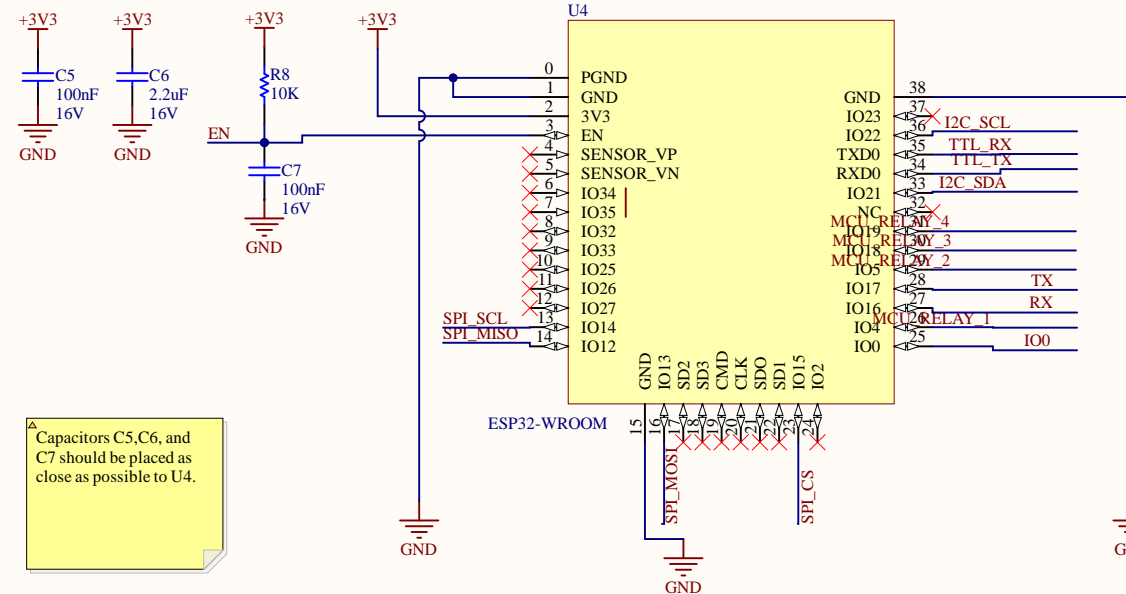
Voltage Regulator & Power Led

Capacitors C1, C2, and C3 should be placed as close as possible to U1.



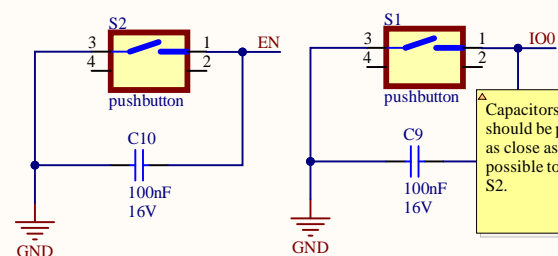
USB to Serial Converter

Capacitors C4, C5 should be placed as close as possible to U3.



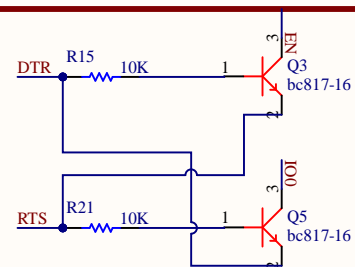
ESP32-WROOM

Capacitors C5, C6, and C7 should be placed as close as possible to U4.



Boot and Enable Button

Capacitors C9,C10 should be placed as close as possible to S1 and S2.

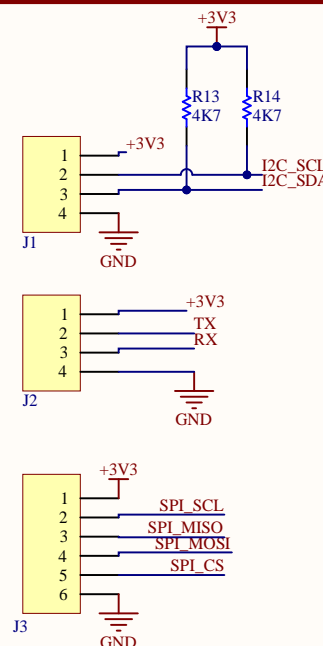


Boot Mode Circuit

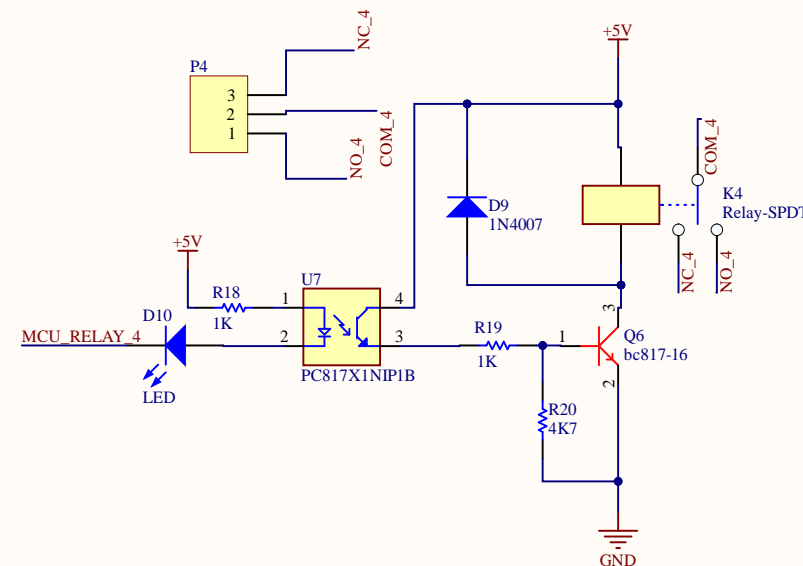
Boot Mode Configuration			
Pin	Run	Bootloader	Default
I00	1	0	1
I02	x	0	0
I05	1	x	1
I012	0	0	0
I015	x	x	1

I012 = MDTI, I015 = MDT0

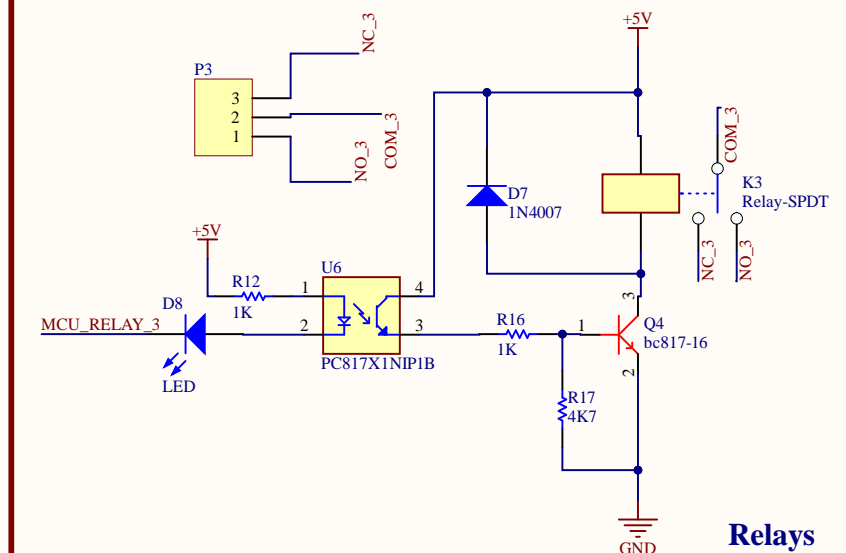
If DTR is LOW, toggling RTS from HIGH to LOW resets to run mode.
If RTS is HIGH, toggling DTR from LOW to HIGH resets to bootloader.



Connectors



Relays



Relays