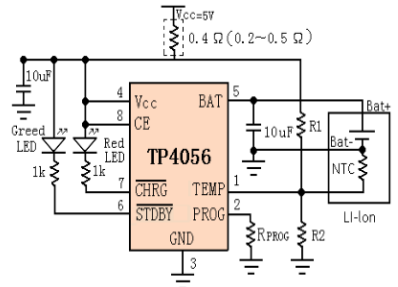


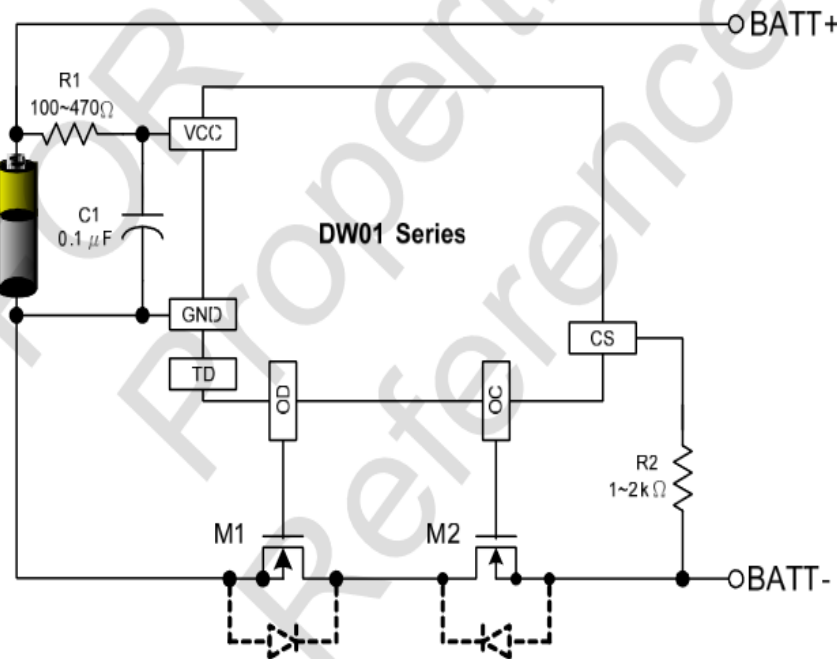
indicator light state		
Charge state	Red LED CHRG	Green LED STDBY
charging	bright	extinguish
Charge Termination	extinguish	bright
Vin too low; Temperature of battery too low or too high; no battery	extinguish	extinguish
BAT PIN Connect 10u Capacitance; No battery	Green LED bright, Red LED Coruscate T=1-4 S	

Rprog Current Setting	
RPROG (k)	IBAT (mA)
10	130
5	250
4	300
3	400
2	580
1.66	690
1.5	780
1.33	900
1.2	1000

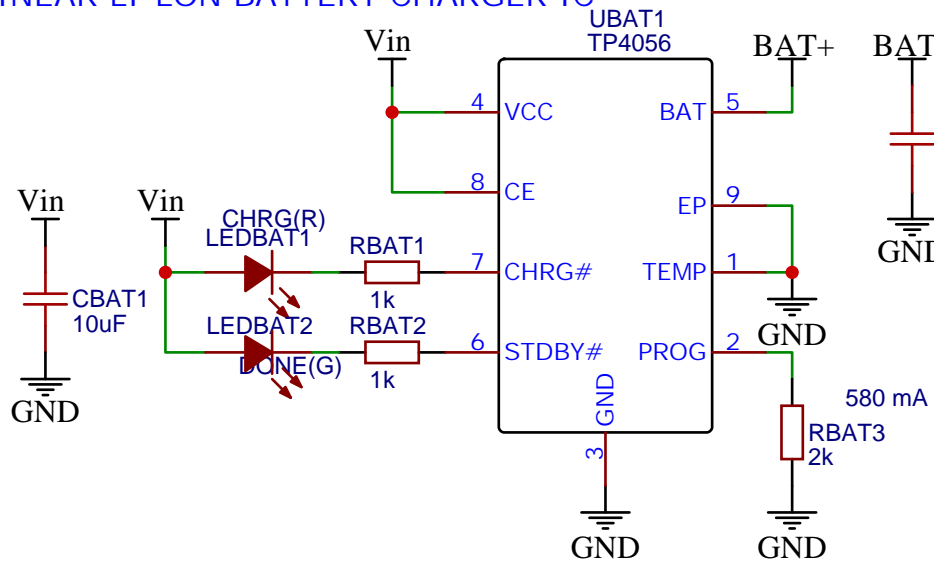
TYPICAL APPLICATIONS



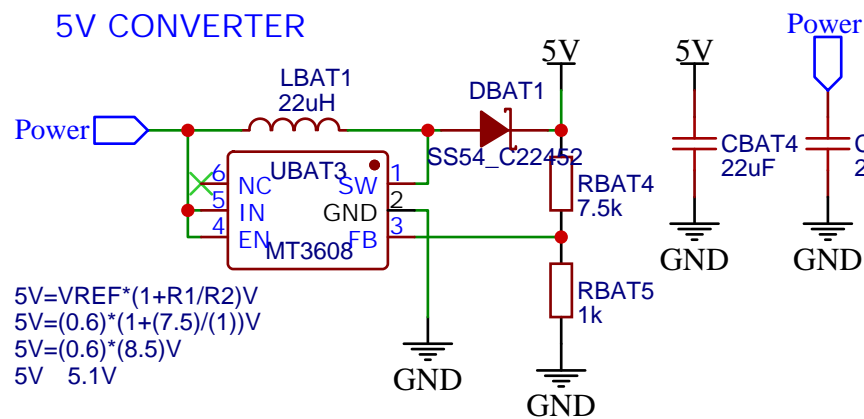
8. Typical Application Circuit



LINEAR LI-LON BATTERY CHARGER IC



5V CONVERTER



Setting the Output Voltage

The internal reference VREF is 0.6V (Typical).The output voltage is divided by a resistor divider,R1 and R2 to the FB pin. The output voltage is given by

$$V_{OUT} = V_{REF} \times (1 + \frac{R_1}{R_2})$$

Inductor Selection

The recommended values of inductor are 4.7 to 22uH. Small size and better efficiency are the major concerns for portable device, such as MT3608 used for mobile phone. The inductor should have low core loss at 1.2MHz and low DCR for better efficiency. To avoid inductor saturation current rating should be considered.

Capacitor Selection

Input and output ceramic capacitors of 22uF are recommended for MT3608 applications. For better voltage filtering, ceramic capacitors with low ESR are recommended. X5R and X7R types are suitable because of their wider voltage and temperature ranges.

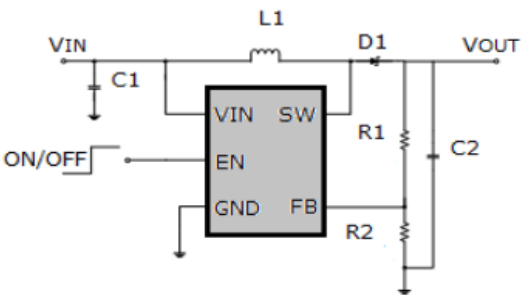
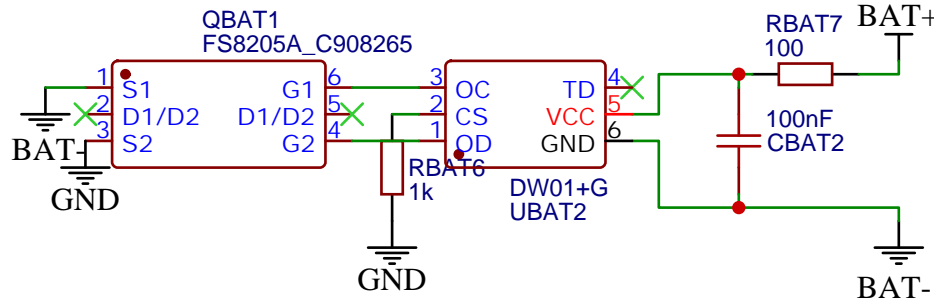
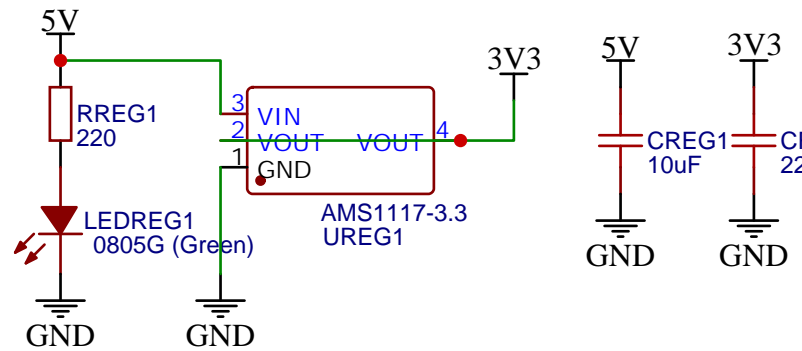


Figure 1. Basic Application Circuit

BATTERY MANAGEMENT/PROTECTION IC



STEP DOWN CONVERTER



TYPICAL APPLICATION CIRCUIT

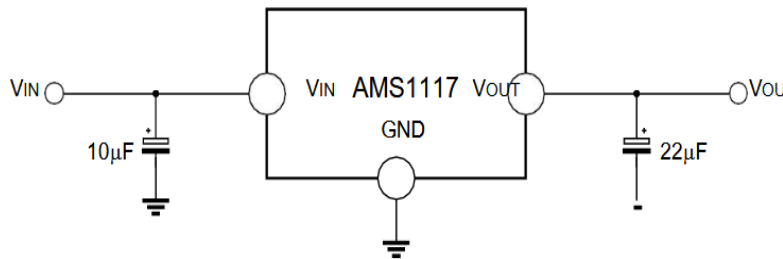
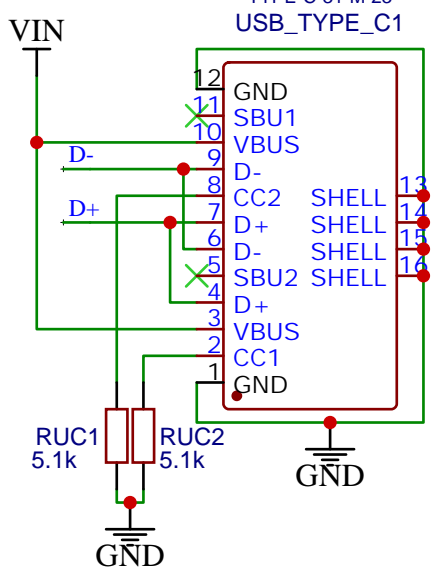
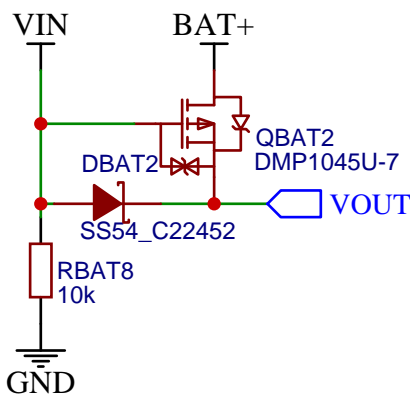


Figure 1. Typical Fixed Output Voltage

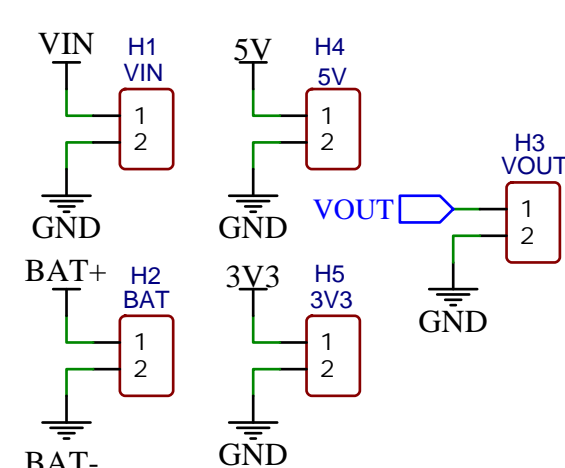
USB TYPE C



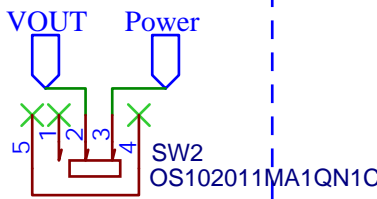
Load Sharing Power Path Control



Power Test Connectors



POWER SWITCH



TITLE:

Power

REV: 2.3

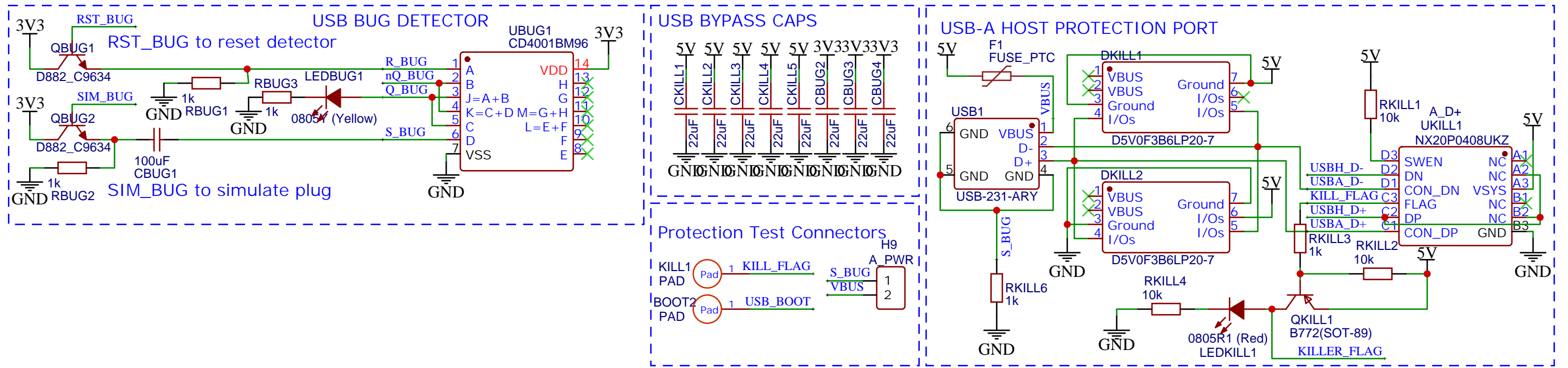
EasyEDA

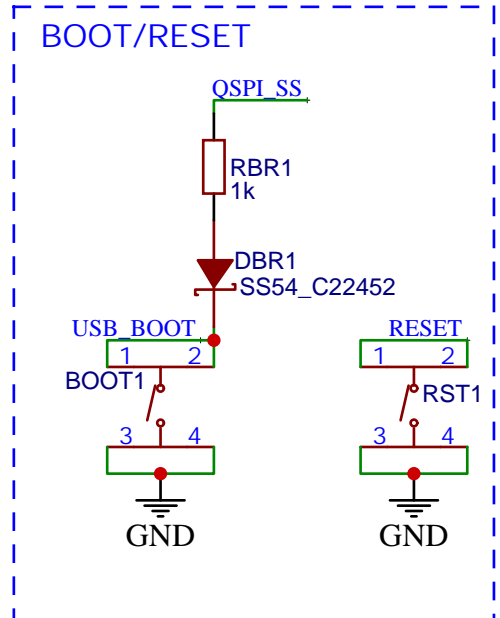
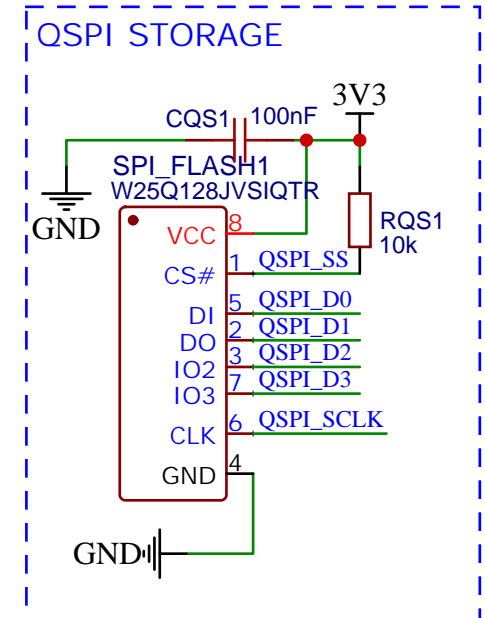
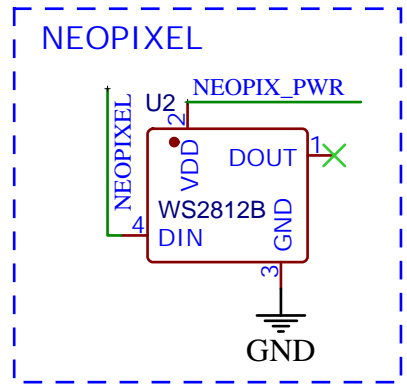
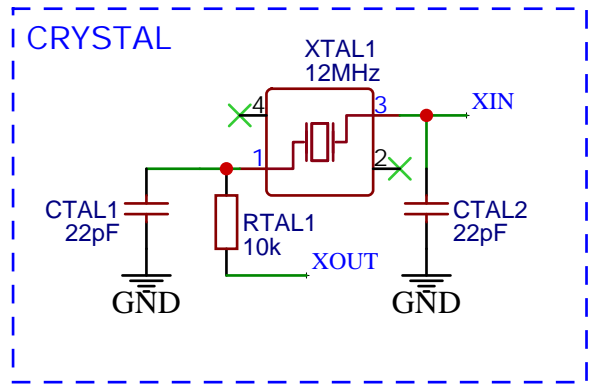
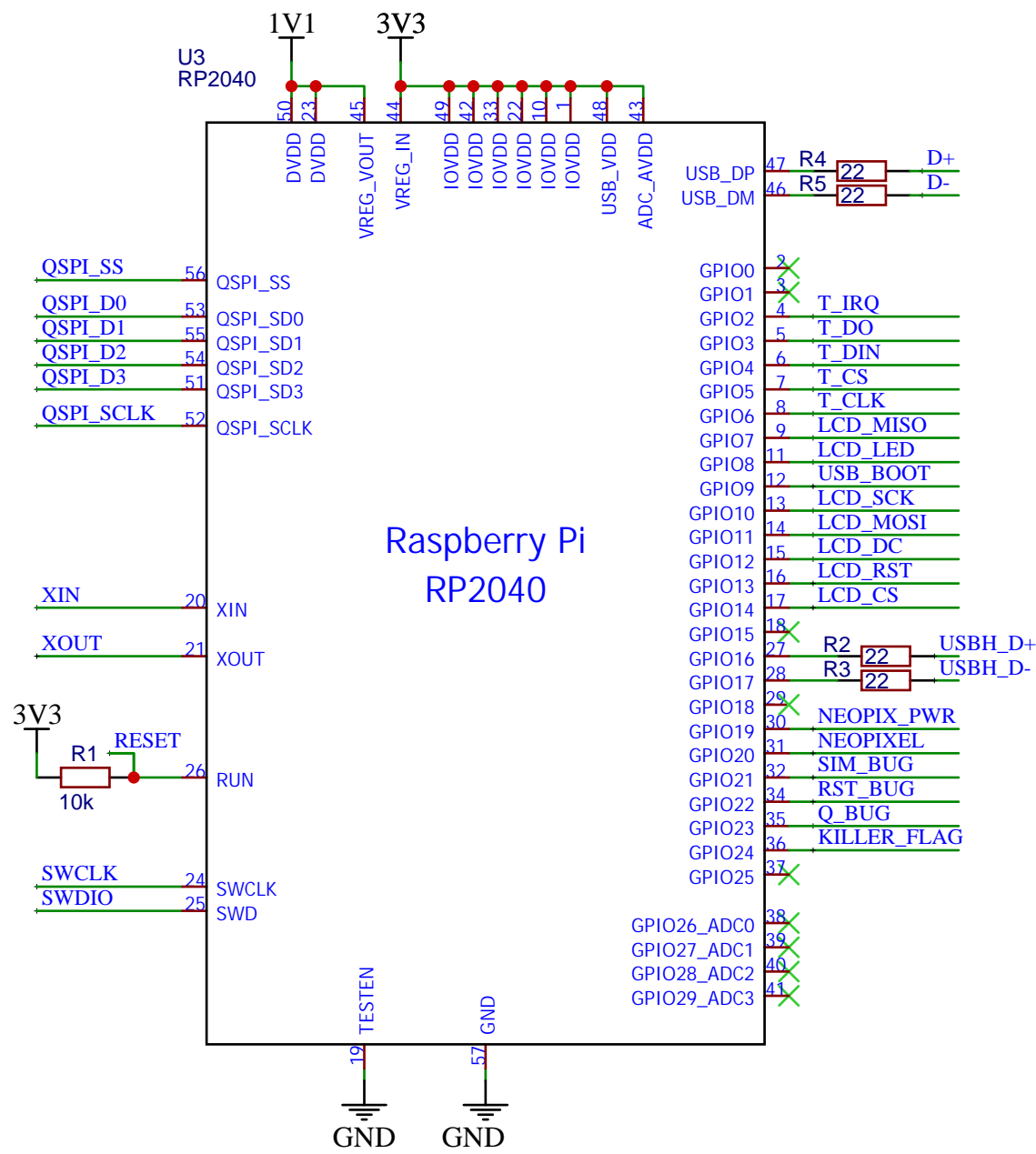
Company: UNLV

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Date: 2024-01-19

Drawn By: yocumsean





RP2040 BYPASS CAPS

