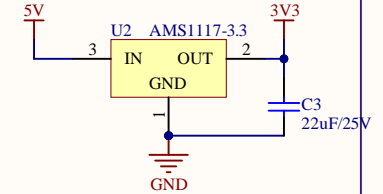
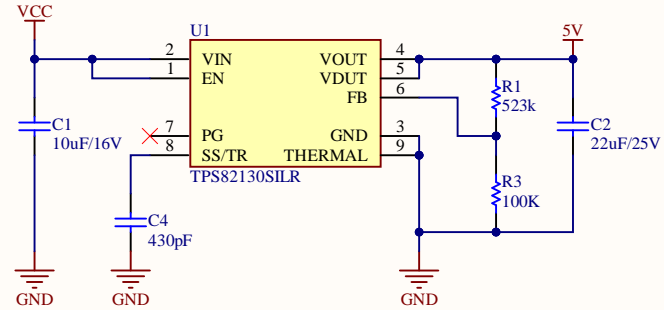
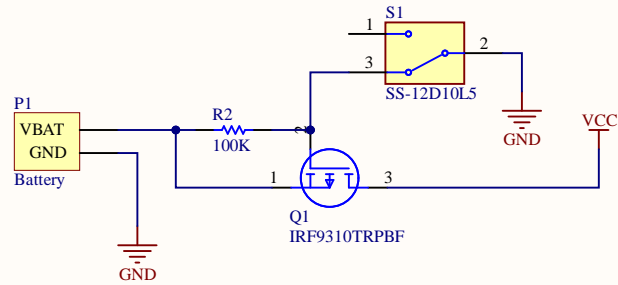
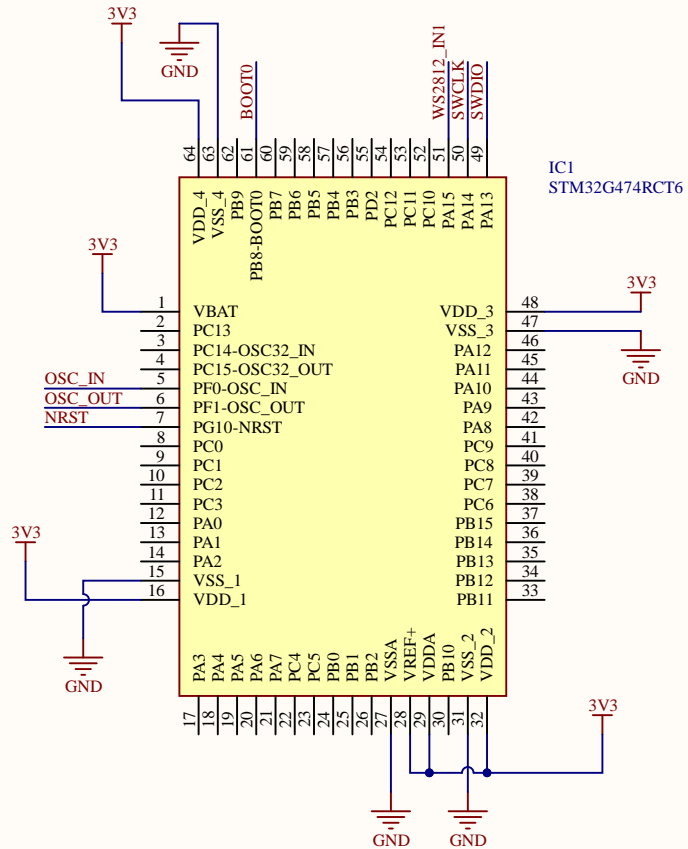


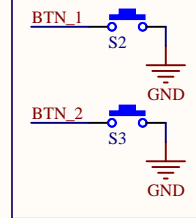
## POWER SUPPLY



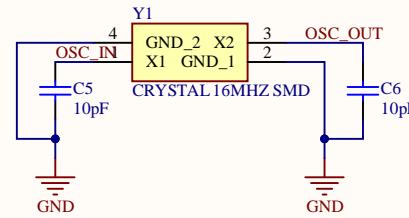
## MICROCONTROLLER



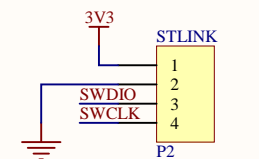
## BUTTONS



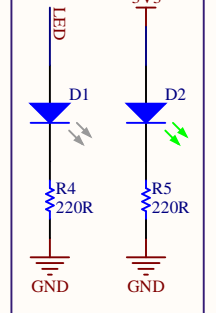
## OSCILLATOR



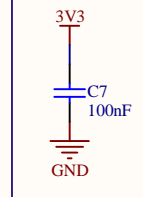
## DEBBUGER



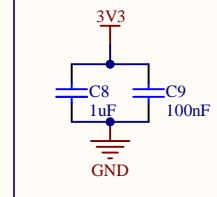
## LEDS



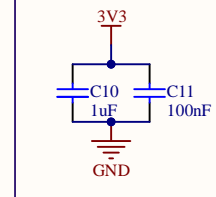
## VBAT



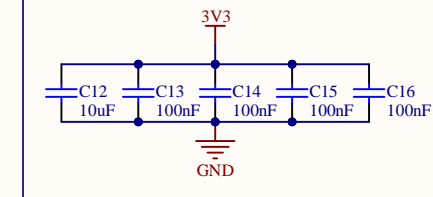
## VREF+



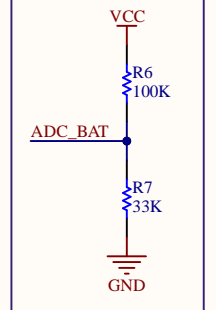
## VDDA



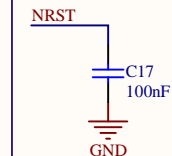
## VDD



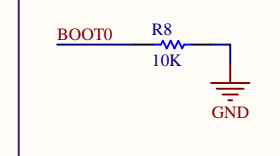
## BATTERY\_MEASURE



## NRESET

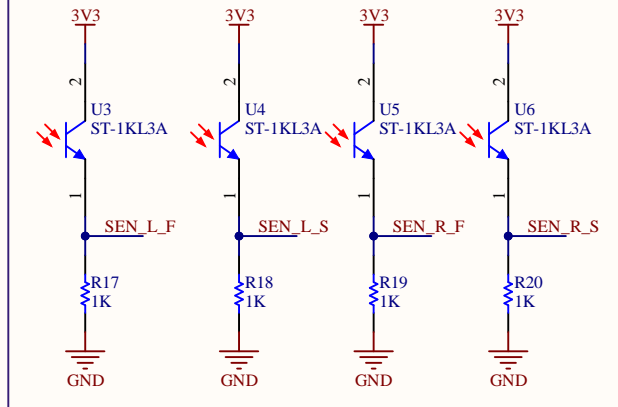


## BOOT CONFIG

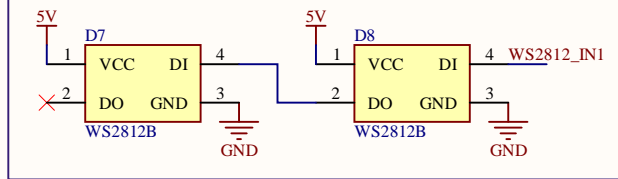


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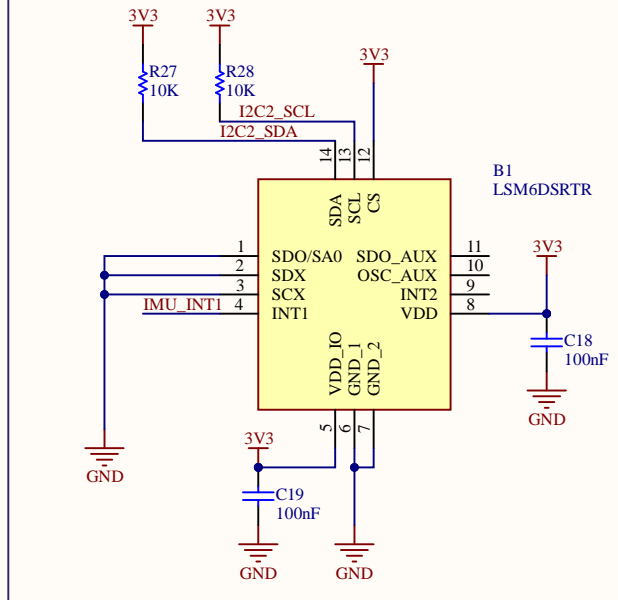
## PHOTOTRANSISTOR



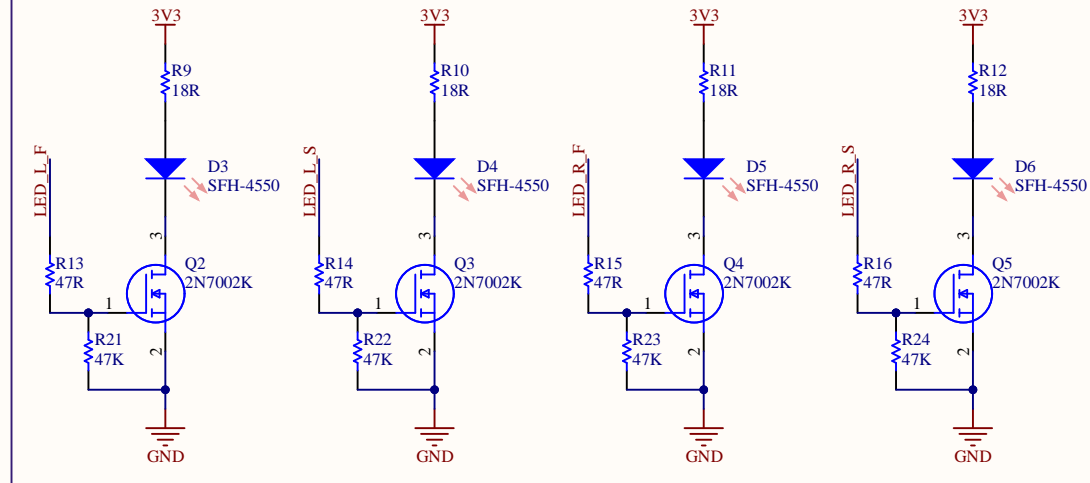
## RGB



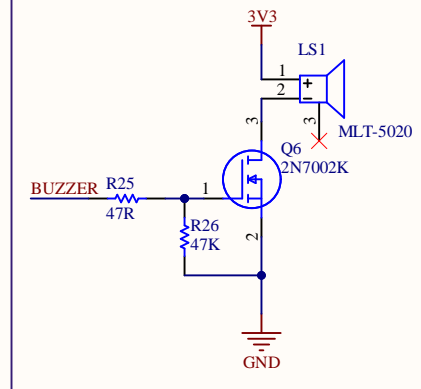
## IMU



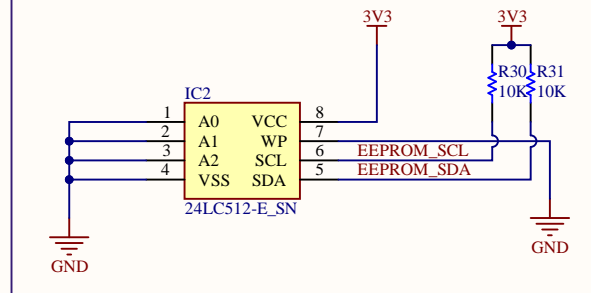
## IR LEDs



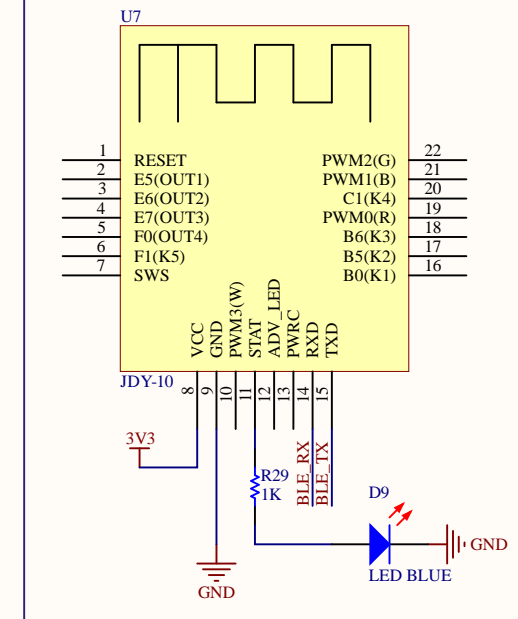
## BUZZER



## EEPROM



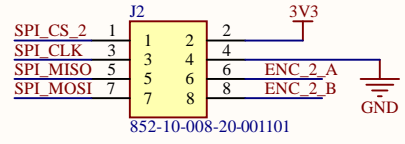
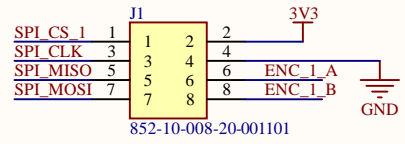
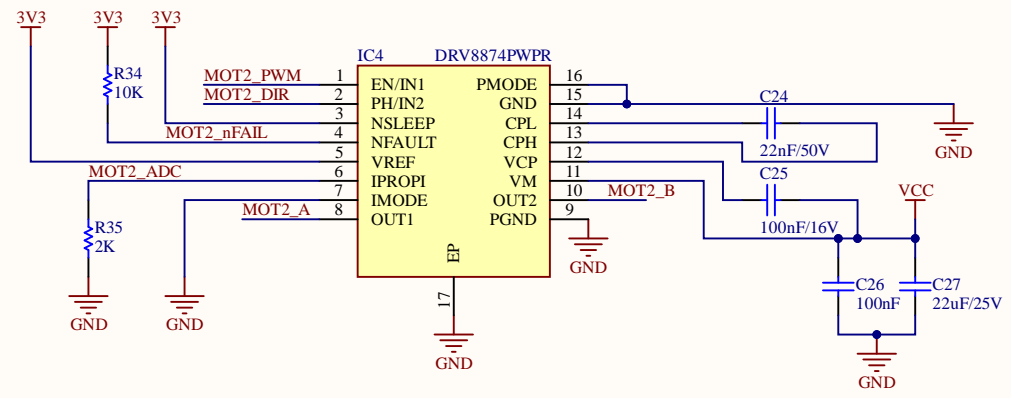
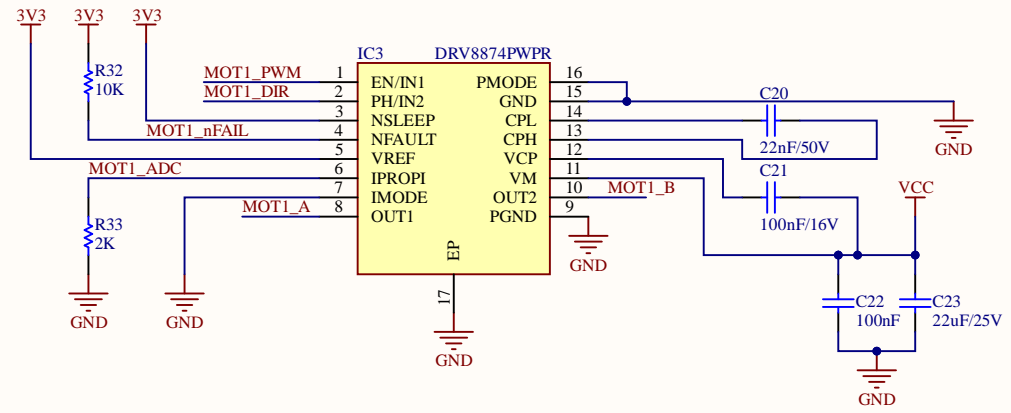
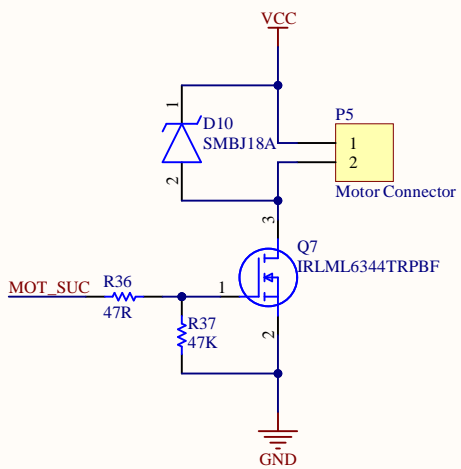
## BLE



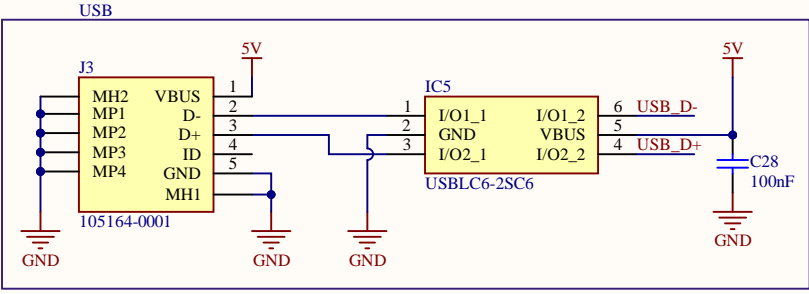
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$I_{trip} = \text{Max Driver Current}$   
 $I_{trip} = V_{ref} / (R_{irop} * 0.000455)$   
Using  $R = 2K$  and  $V_{REF} = 3.3$   
 $I_{trip} = 3.626A$

MOT1\_ADC cannot be larger than adc max value.  
So:  
 $V = R * I = R * A_{ipropi} * i \Rightarrow$   
 $V = 2000 * 0.000455 * i$   
Para  $V = 3.3$ ,  $I = 3.62$   
Precisão do ADC:  
 $3.3/4096 \Rightarrow 0.000805664mV$   
Precisão da corrente:  
 $V = R * I = R * A_{ipropi} * i$   
 $i = 0.000805664 / (2000 * 0.000455) = 0.88mA$



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