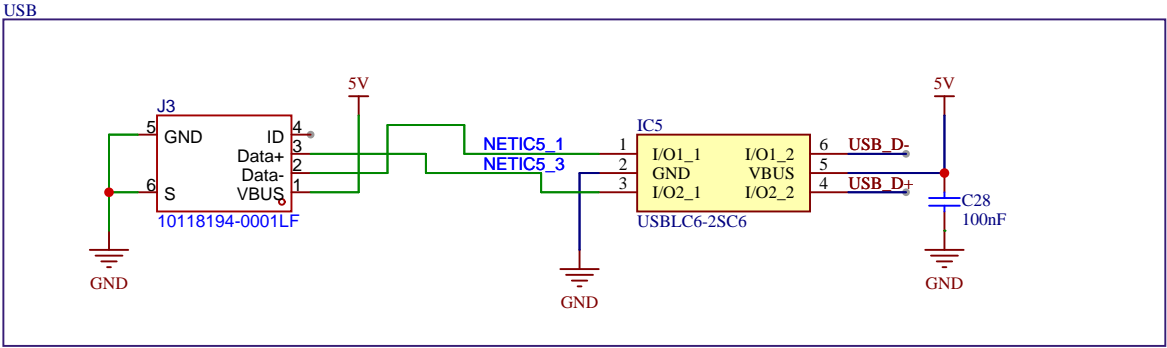
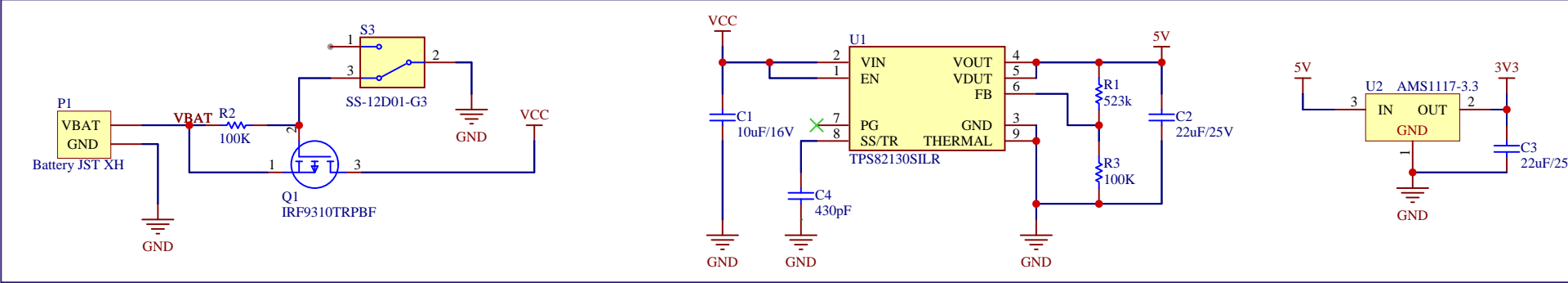


Body

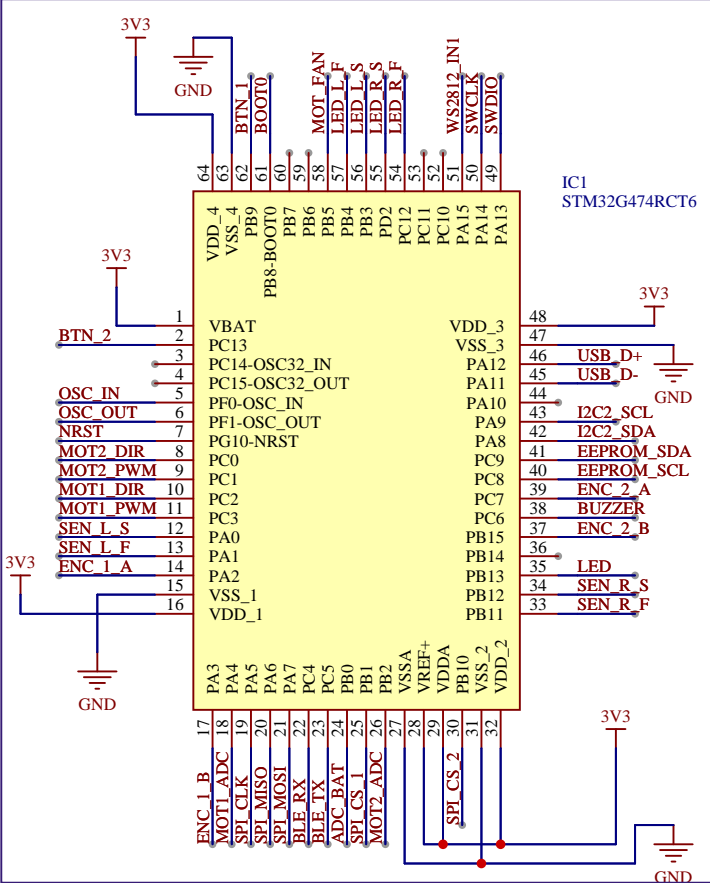


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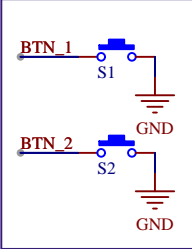
POWER SUPPLY



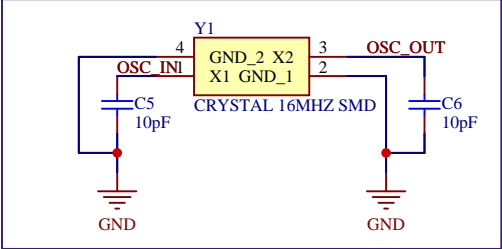
MICROCONTROLLER



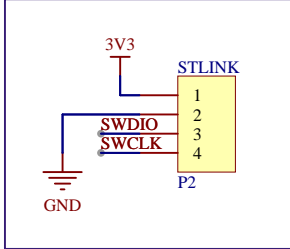
BUTTONS



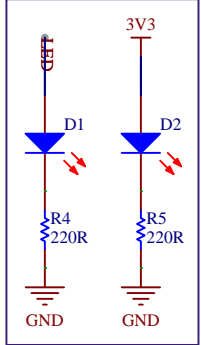
OSCILLATOR



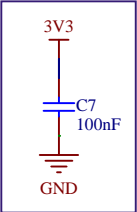
DEBBUGER



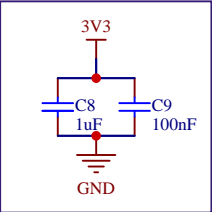
LEDs



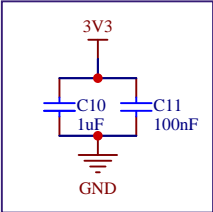
VBAT



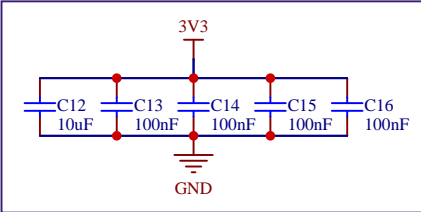
VREF+



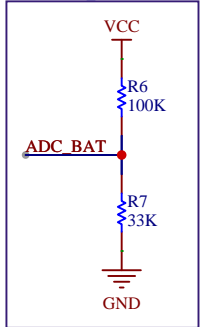
VDDA



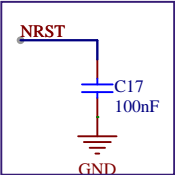
VDD



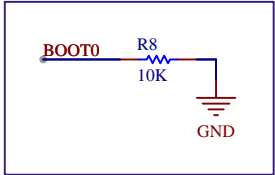
BATTERY MEASURE



NRESET



BOOT CONFIG



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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:

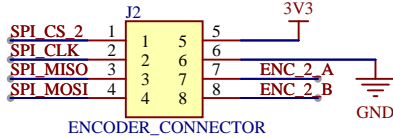
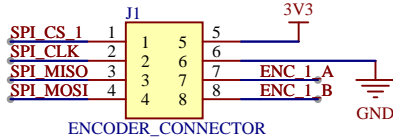
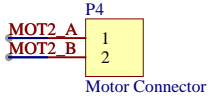
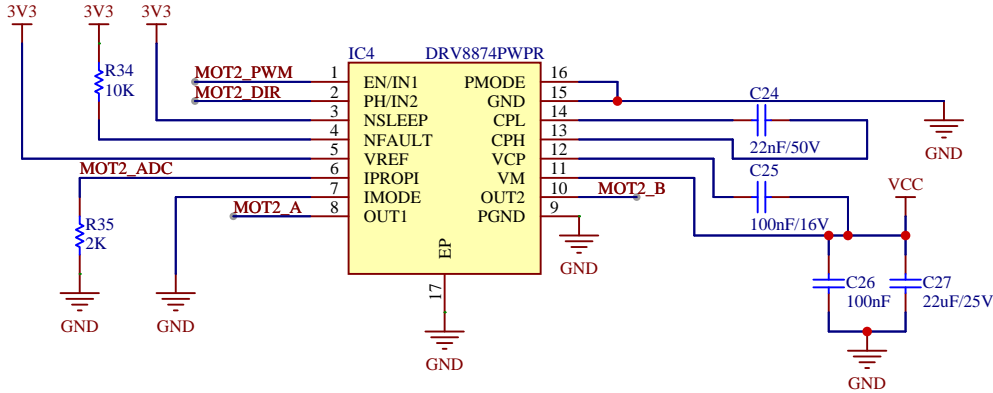
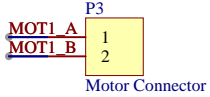
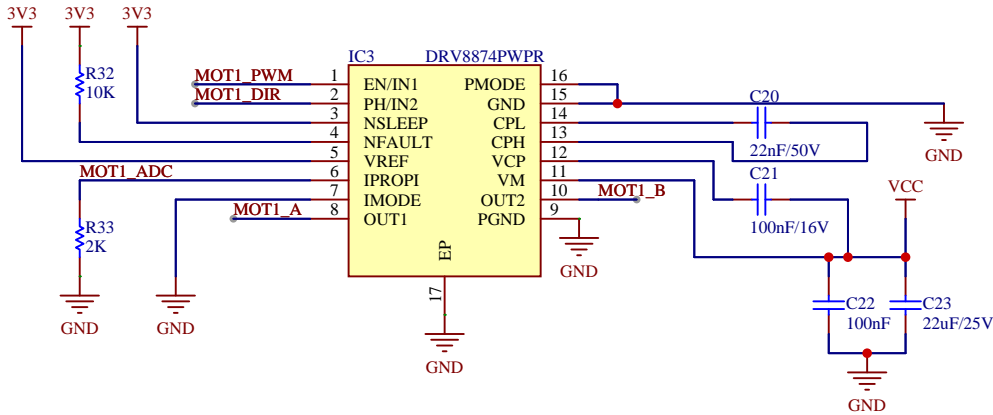
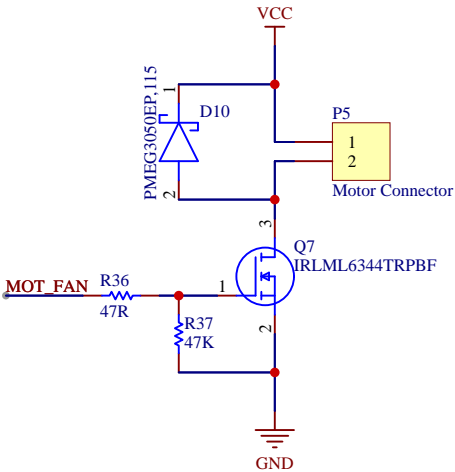
$$V = R * I = R * A_{ipropi} * i \Rightarrow$$

$$V = 2000 * 0.000455 * i$$

$$\text{Para } V = 3.3, I = 3.62$$

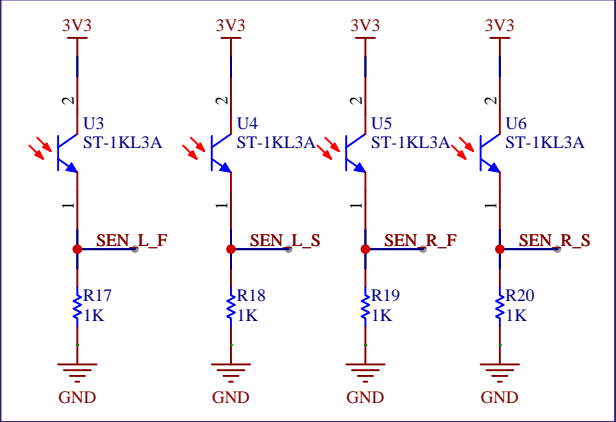
Precisão do ADC:
 $3.3/4096 \rightarrow 0.000805664mV$

Precisão da corrente:
 $V = R * I = R * A_{ipropi} * i$
 $i = 0.000805664 / (2000 * 0.000455) = 0.88mA$

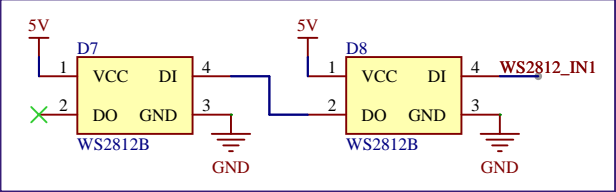


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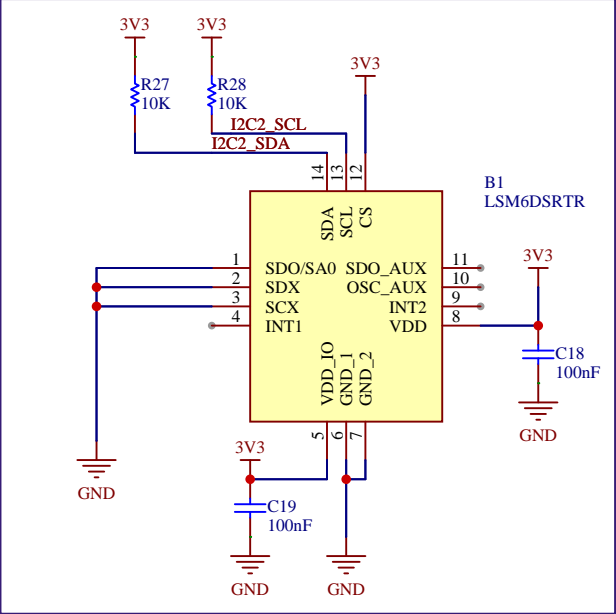
PHOTOTRANSISTOR



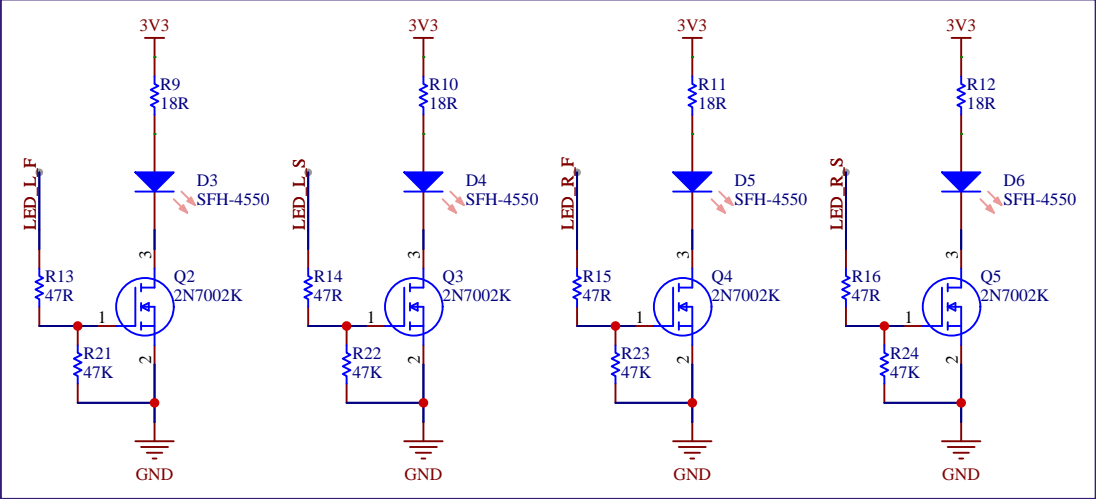
RGB



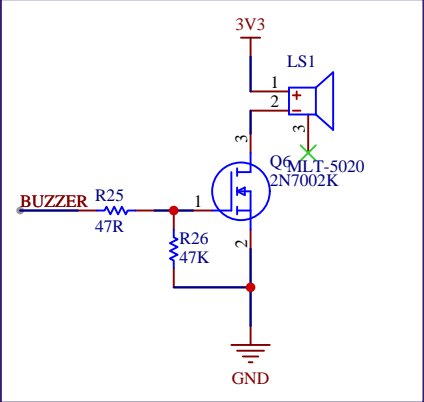
IMU



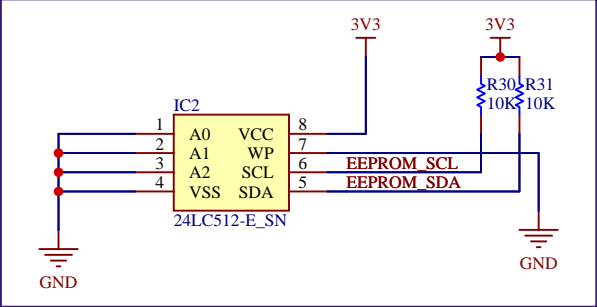
IR LEDs



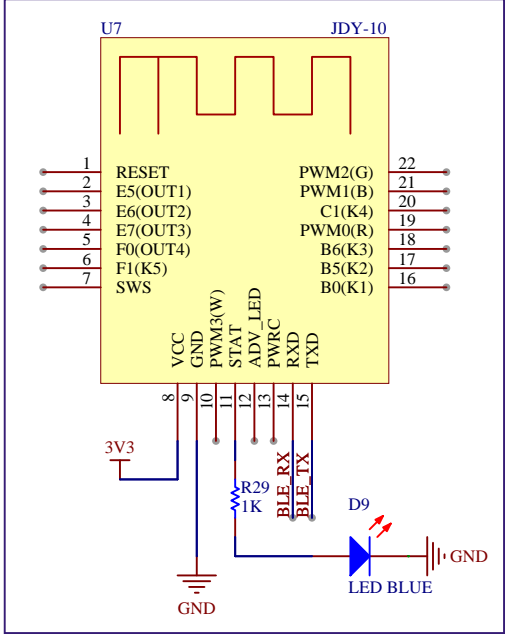
BUZZER



EEPROM



BLE



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