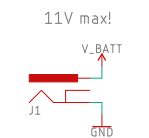
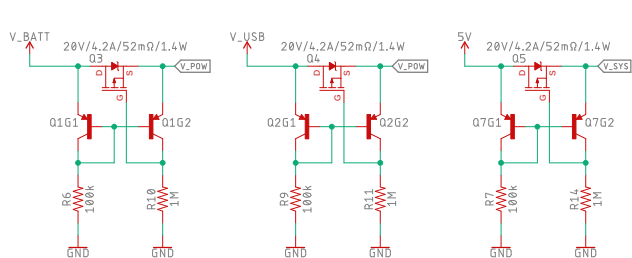


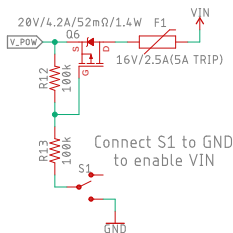
Battery Connector



Power Flow Perfect Diode Circuits

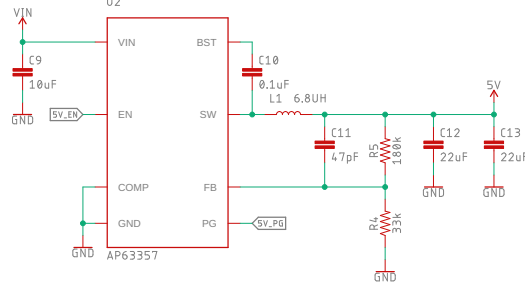


Power Switch

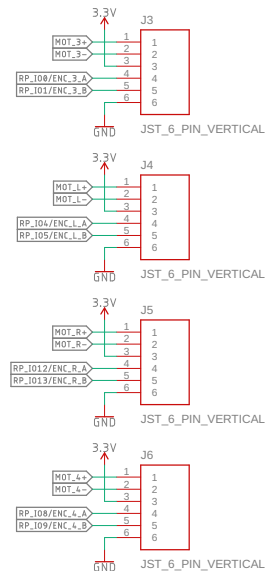


Connect S1 to GND to enable VIN

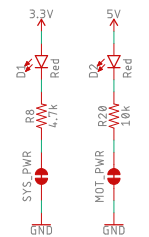
5V Buck Regulator



Motor Connectors

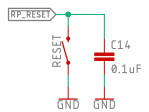


Power LED

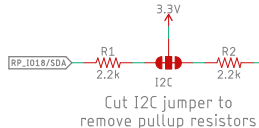


Cut PWR jumpers to remove power LEDs

Reset Button

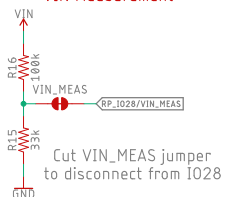


I2C Pullups



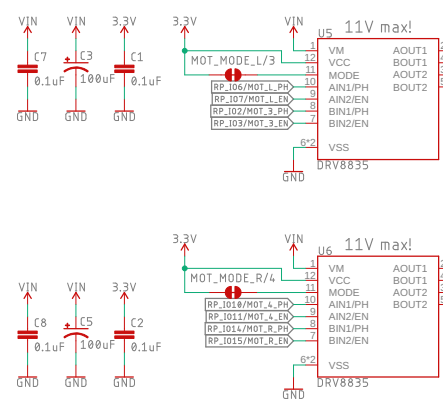
Cut I2C jumper to remove pullup resistors

VIN Measurement



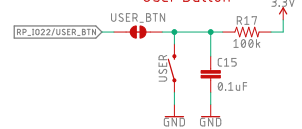
Cut VIN_MEAS jumper to disconnect from I028

Motor Drivers



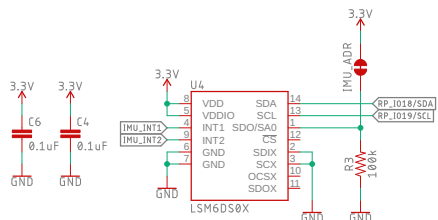
Cut MOT_MODE jumpers to change from PH/EN mode to PWM mode

User Button



Cut USER_BTN jumper to disconnect from I022

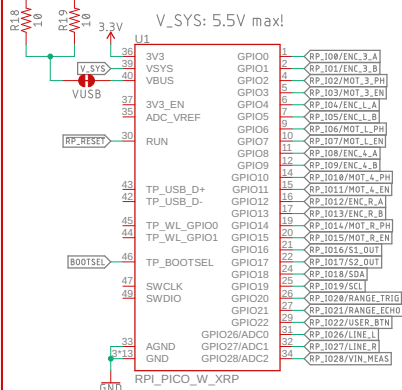
6-DoF IMU



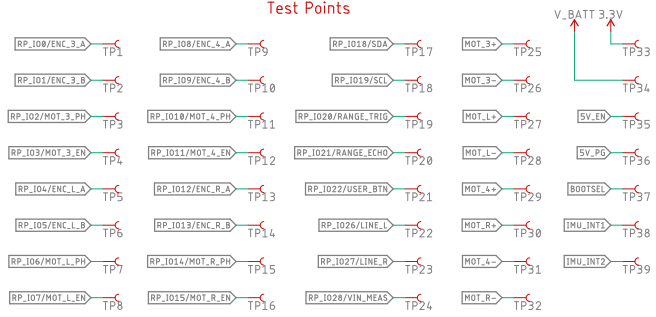
Default I2C address: 0x6B
Open IMU_ADR jumper: 0x6A

RPI Pico W

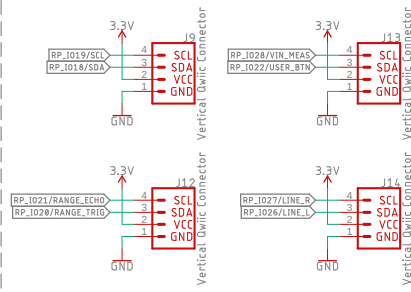
Cut VUSB jumper to prevent motors and servos from being powered by USB



Test Points



Expansion Connectors



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TITLE: XRP_Controller

Design by: Dryw Wade

REV: v10

Date: 6/15/2023 4:46 PM

Sheet: 1/1