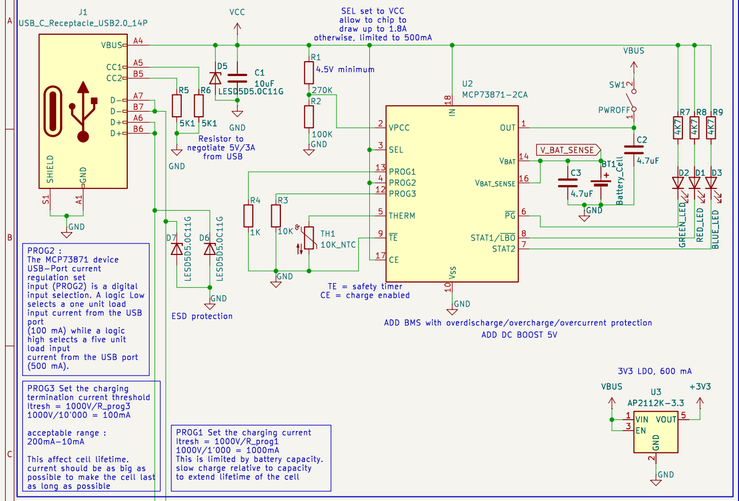
ENERGY

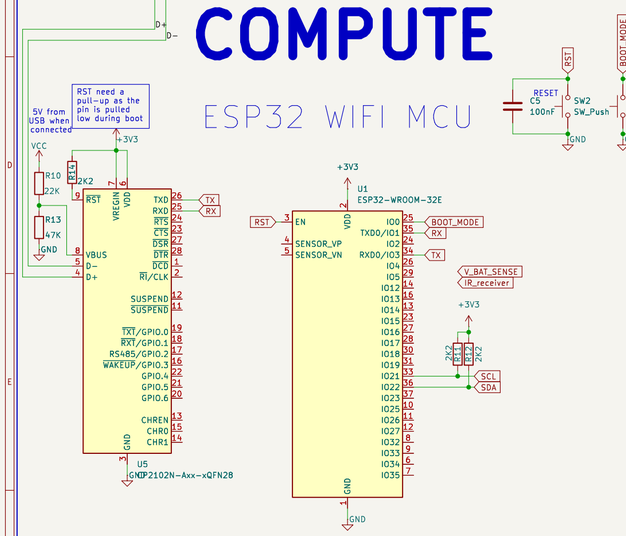
Bat + BMS + Power

up to 5.5A charge current
given 1.5A Max during motor usage,
we can charge the robot for a 45 min lesson in less than 10 min



COMPUTE

ESP32 WIFI MCU

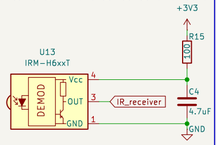


SENSORS

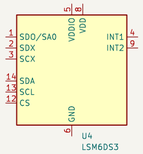
Microphone

Capacitive Buttons

IR Remote Receiver



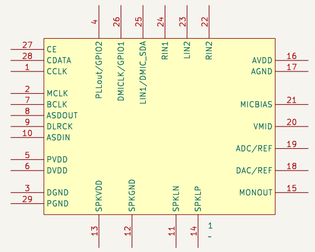
6 AXIS IMU



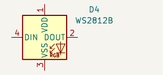
IR Proximity sensor

ACTUATOR

AUDIO SPEAKER



RGB LED



On the daughterboard

Color Sensor (over I2C)

On the daughterboard

Motors / H-bridge

use

SX1509
PCA9685
they work over I2C
and can be paired
to an H bridge

Sheet: /	
File: Sthymuli-motherboard.kicad_sch	
Title:	
Size: A2	Date:
KiCad E.D.A. 9.0.7	**Rev:** Id: 1/1