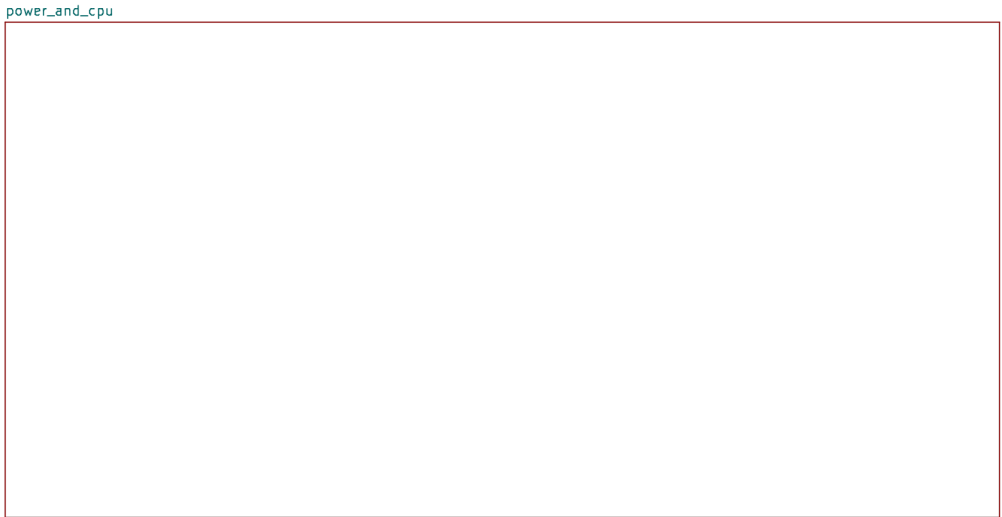


CLICK BELOW FOR CPU<sub>s</sub> AND I/O LAYOUT



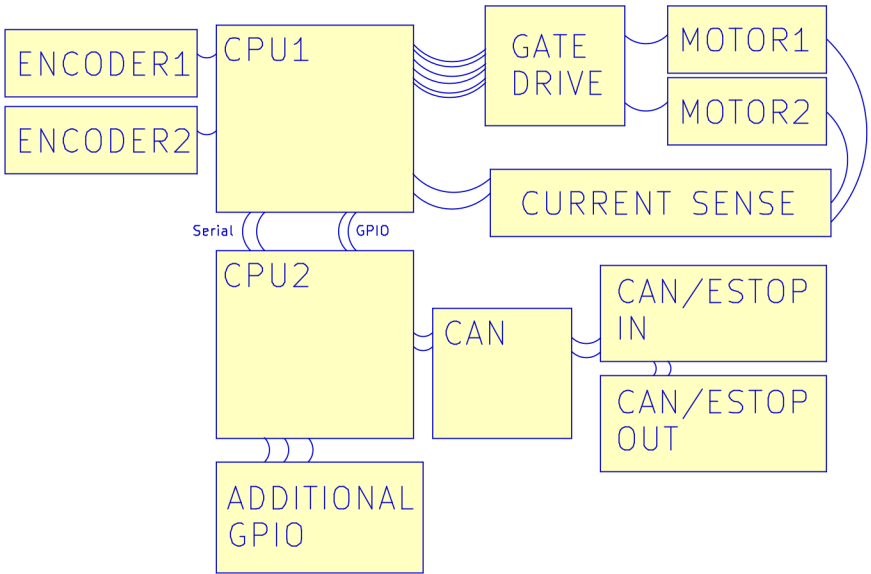
File: power\_and\_cpu.kicad\_sch

CLICK BELOW FOR GATE DRIVE AND MOTOR CONNECTIONS



File: gate\_drive.kicad\_sch

53V input maximum run voltage  
20 Amp peak current draw  
50 Amp peak per motor absolute maximum



LICENSE: CERN-OHL-P  
(license roughly means, share, modify, etc, but do not sue us)  
**Twisted Fields LLC**

Sheet: /  
File: RP2040\_motor.kicad\_sch

**Title: RP2040 Motor Controller**

Size: A3	Date: 2022-6-1	Rev: REV1
KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1		Id: 1/3



CPU1 – Motors

Flash

## Crystal

Raspberry  
RP2040

CPU2 – Communications and GPIO

Flash

## Crystal

Raspberry  
RP2040

Encoder inputs

Power

52 Volt input max

CPU2 and EXT IO

## CAN Bus

## Onboard Thermistors

## Input Voltage Sense

LEDs

WR LED

Configuration +3

## External GPIO

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole
- H6 MountingHole
- H7 MountingHole
- H8 MountingHole