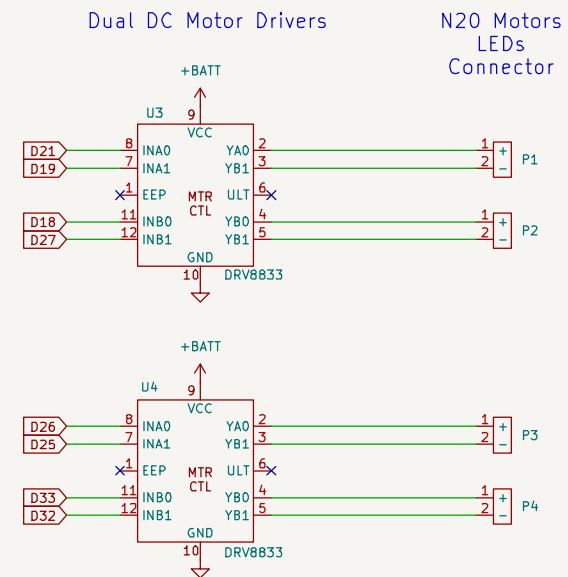
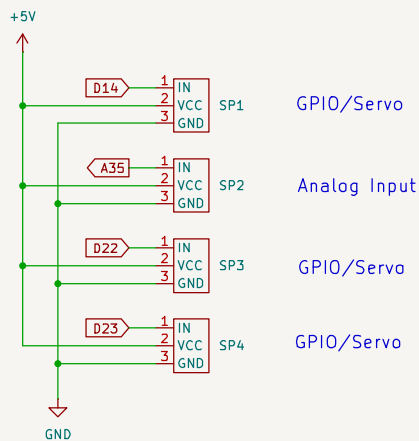


Servo/GP 3pin Connector



NOTES:

RC Controller for ESP32 RC Projects (Skid Steer, Dump Truck)

Powered by 2S LiPo (300-450mAh) which should fit in right side of PCB

Install Power Distribution circuit first & test to ensure you have +5v +/-5% from regulator and that A34 is not above 3.3v which will destroy ESP32

Pololu 2808 "Power Switch" has onboard pushbutton to turn on Battery <-> Regulator connection. SW1 is optional and should be a low bounce (tactile) type. Put OFF signal high to shut down.

A34 monitors the state of the LiPo battery. Connect 7.0v to VIN of 2808 and read ESP32 ADC to set the low value to turn off the POL2808 to prevent battery from discharging. ESP32 ADCs are not exact between modules.

DRV8833 module provides power for N20 DC motors and can power LEDs. By reversing the polarity of INA0/1 you can reverse motors and power 2 sets of LEDs (both can't be on at same time)

Disconnect battery when uploading code via USB

Crab Consulting

Sheet: /

File: ESP32_CNTRL.kicad_sch

Title: ESP32 RC Controller

Size: A

Date: 2024-07-28

Rev: 2

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