

1	2	3	4	5	6	7	8	
A								A
B								B
C								C
D								D
E								E
F	1	2	3	4	5	6	7	8

Sheet: Motor Board



File: Motor_Board.sch

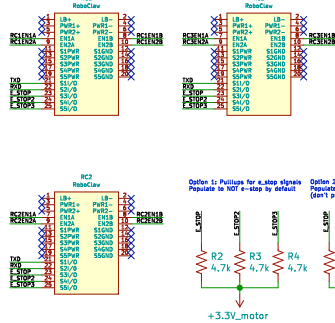
Sheet: Brain Board



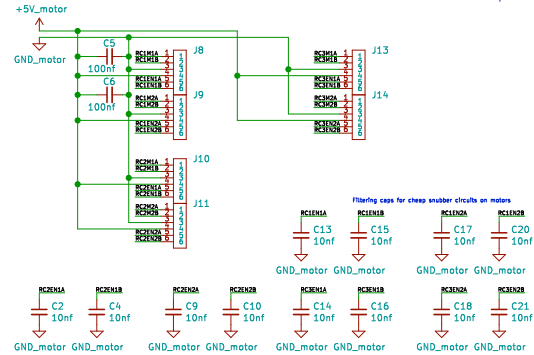
File: Brain_Board.sch

Sheet: /		
File: Control_Boards.sch		
Title:		
Size: A3	Date:	Rev:
KiCad E.D.A. kicad (5.1.10-1-10_14)		Id: 1/3

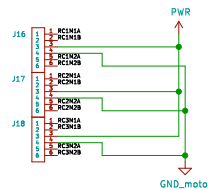
RoboClaw Pin Header



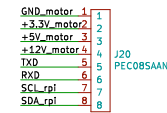
Roboclaw Motor Connection Output



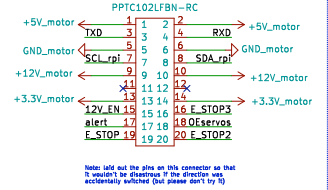
Roboclaw Power BUS



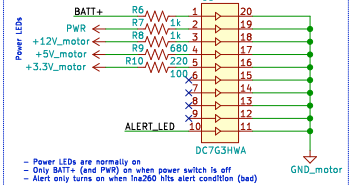
Test Pin Header



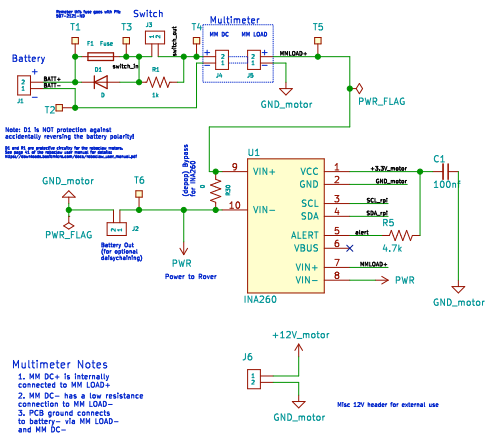
Inter-Board Connection



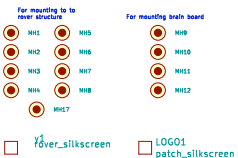
Motor LEDs



Power Distribution



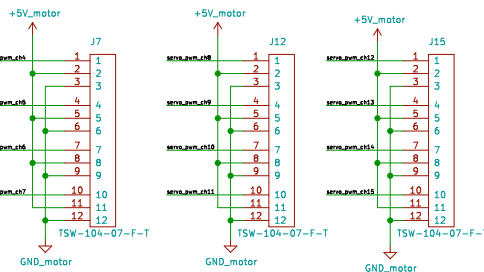
Miscellaneous



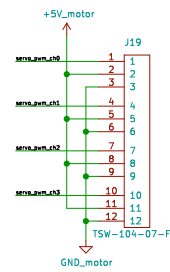
Power Test Points



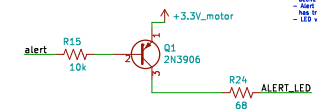
Extra PWM Outputs Headers



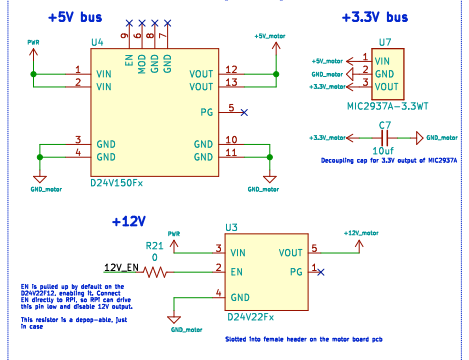
Corner Steering Servos Header



Alert Signal LED logic



Voltage Regulators



Sheet: /Motor Board/
File: Motor_Board.sch

Title:

Size: A3
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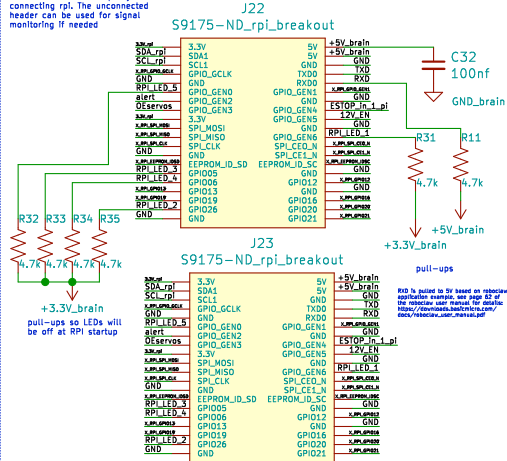
Date:

Rev:

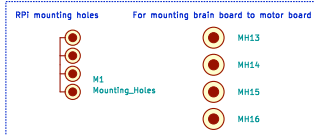
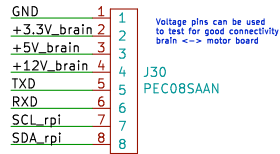
Id: 2/3

Raspberry Pi breakout

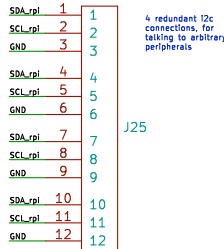
Either J22 or J23 is equally valid for connecting rpi. The unconnected header can be used for signal monitoring if needed



Test Pin Header

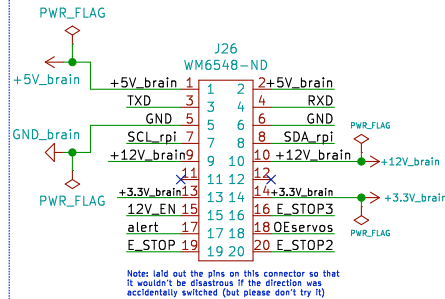


RPi I2C Header

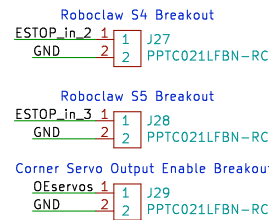


☐ Y2over_silkscreen ☐ LOGO2 patch_silkscreen

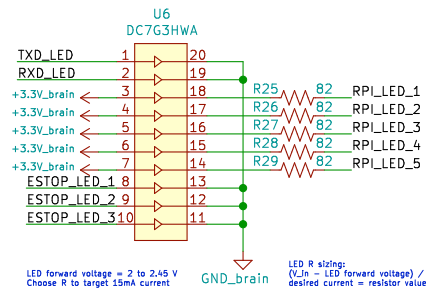
Inter-Board Connection



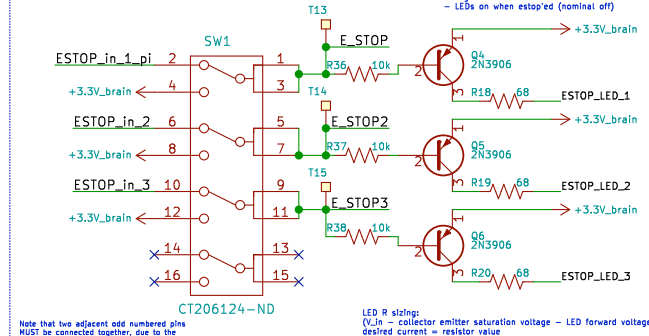
Secondary ESTOP header



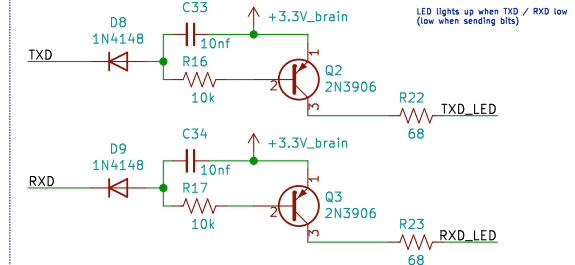
Brain LEDs



ESTOP LED logic



Serial TXD/RXD LED logic



Arduino Communication



Sheet: /Brain Board/
 File: Brain_Board.sch

Title:

Size: A4

Date:

Rev:

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Id: 3/3