Notes:
1. Assembly should be performed by knowledgeable and skilled individual. SuperDroid Robots offers assembly services if you are not comfortable reading schematics and performing work.
2. Wire gauges depend on load and size of motors.
3. Fuse size depends on load and size of motors.
4. Switch should be rated for at least the same amount of current as the fuse.
5. To charge batteries unplug them and use charger or run parallel wire with plug for charger.
OMNI Wheel Robot Wiring Diagram With PWM Motor Controller and Encoders

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7. If Battery is 12V you can connect the 2.1mm jack from the arduino to the 12V Bus.

Arduino Pin Out

1. Dir FL
2. PWM FL
3. Dir FR
4. PWM FR
5. PWM RR
6. Dir RR
7. Dir RL
8. PWM RL
9. StrafeRC
10. DriveRC
11. TurnRC
12. (Front)S1
13. (Front)S2
14. (Rear)S1
15. (Rear)S2
16. MISO
17. MOSI
18. SCK

Dual Encoder Breakout Board