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ROBOCARS



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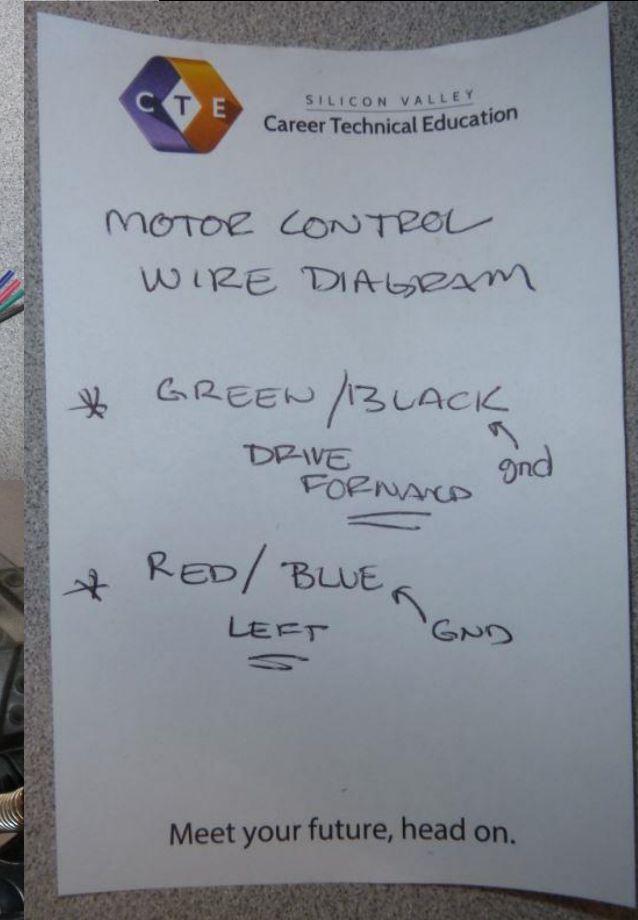
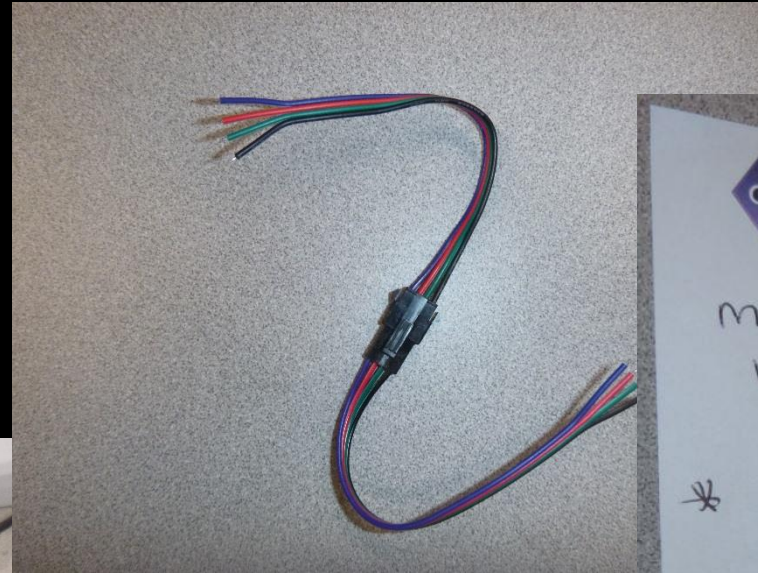
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ROBO CARS PROJECT

- This presentation will document the process to “hack” RC cars and gain control of the motors and be able to control them with Arduino / RaspberryPi controllers.

MOTOR CONTROL PIN OUTS

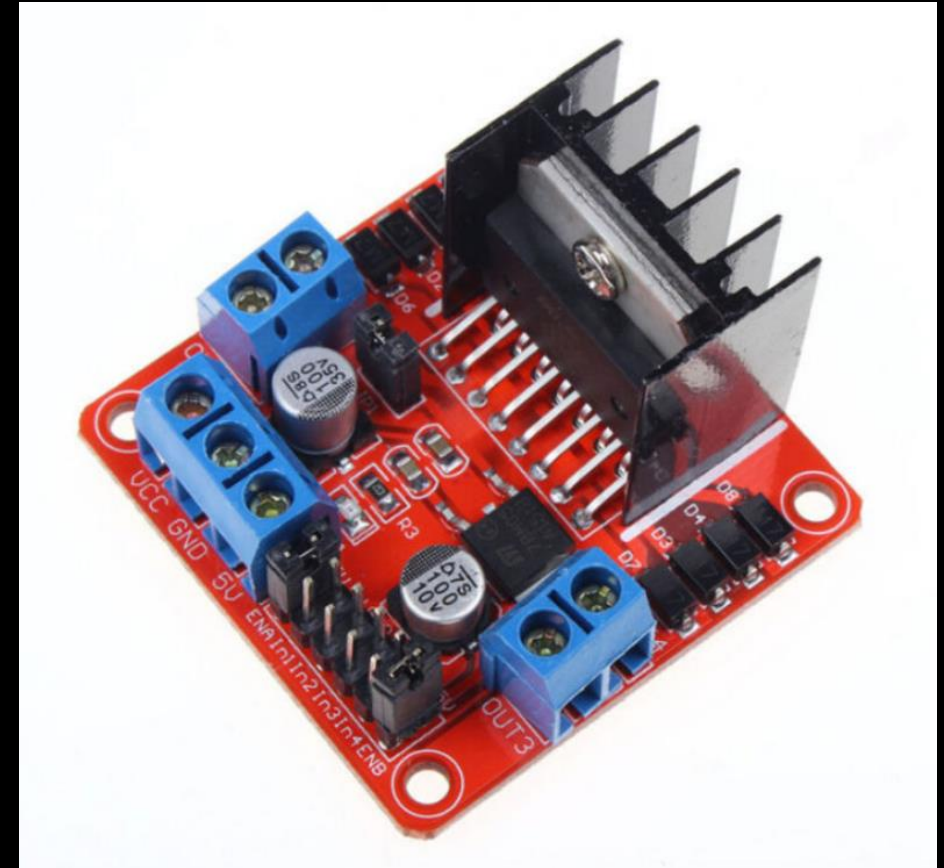
- Wire all cars to have
- Green / Black (gnd) the motors will drive forward
- Red / Blue (gnd) the motors will turn left



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- YouTube - [HOW TO: control DC Motors with Arduino + L298N](#)
- Instructables - [Arduino Modules - L298N Dual H-Bridge Motor Controller](#)

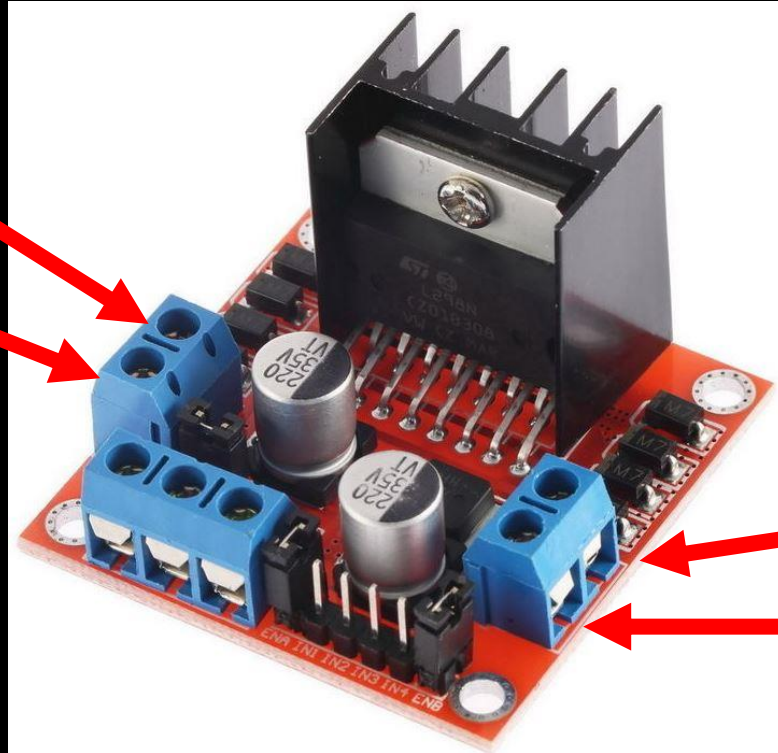


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CONNECTING MOTORS

Drive Motor
Motor A (-)
Motor A (+)



Steering Motor
Motor B (+)
Motor B (-)



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POWERING THE MOTORS

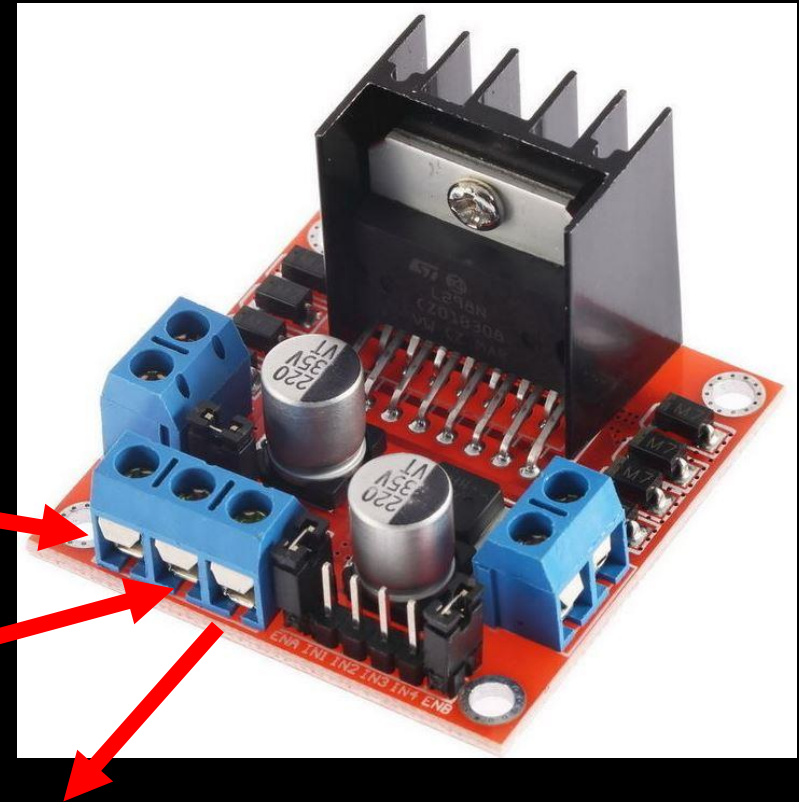
In most cases, the “12” volts will be a 9.6 v battery pack

“12” volts is just the motor power

GND

5 volts out

This can be used to power Arduino



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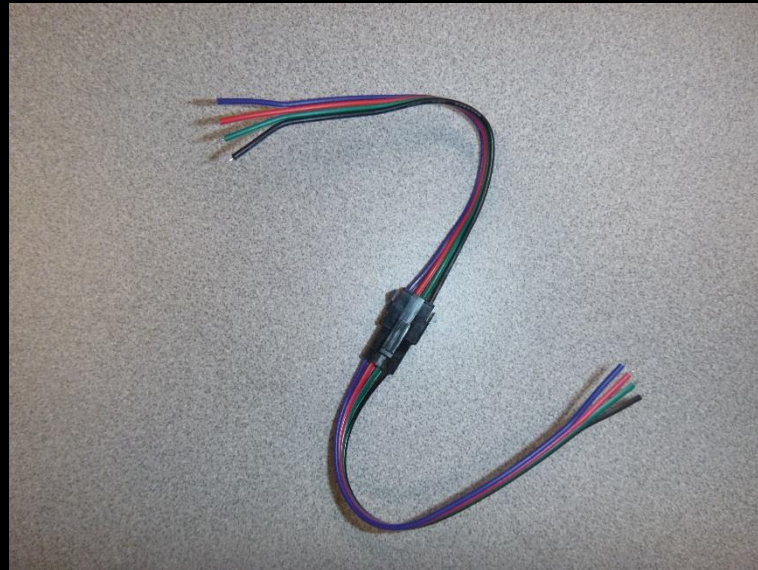
PARTS & SOURCES



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4 PIN WIRE CONNECTORS

- <https://www.ebay.com/itm/5-20pairs-Male-Female-4Pin-Connector-With-Wire-for-5050-3528-RGB-LED-Strips/282118967273?ssPageName=STRK%3AMEBIDX%3AIT&var=581080134377&trksid=p2055119.m1438.l2649>





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APPENDIX



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REFERENCE SLIDES



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OTHER RESOURCES

- <http://www.instructables.com/id/Autonomous-Arduino-Car/>