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## Speed and direction control of dc motor using arduino pdf

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I need a radio control boat control, I want to cycle the engine on and off to extend the life of the batteries 6 - 12 v 40A my feed would be a normal radio control speed controller Thanks Ian This instructable will guide you through the parts and steps to check the speed and direction of a D.C. engine using a dual H-Bridge L293D engine driver for arduino. The driver has two channels, which means it can control the direction of two D.C. engines at the same time. Let me take you through the parts needed to do this... and then the steps with codes. L293D PINS CONNECTIONPIN1(Enable1) -- DigitalPin11(PWM)PIN2(INPUT1) -- DIGITALPin10(PWM)PIN3(OUTPUT1) -- MOTORPIN4(SND1) -- GNDPIN6(OUTPUT2) -- MOTOR PIN 2PIN7(INPUT2) -- DigitalPin9(PWM)PIN8(12v) -- 5vPIN9 (Vss3.3v) - 5v// the pin says 3.3v, but you also connect it to 5v. POTENTIOMETER PINS CONNECTIONPin1(positive)-- 5vPin2(signal) -- analogPIN0Pin3(negative) -- GndPUSH BUTTON PINS CONNECTION1PIN= Gnd2PIN = DigitalPIN7/\*\*/int enablePin = 11;int in1Pin = 10;int in2Pin = switchPin = 7;int potPin = 0;int statusPin= 13;void setup(){ pinMode(in1Pin, OUTPUT); pinMode(in2Pin, OUTPUT); pinMode(enablePin, OUTPUT); pinMode(switchPin, INPUT\_PULLUP); pinMode(statusPin,OUTPUT);} void loop(){ loop(){ int speed = analogRead(potPin) / 4; boolean reverse = digitalRead(switchPin); setMotor(speed, reverse);} void setMotor (int speed, boolean reverse){ analogWrite (enablePin, speed); digitalWrite(in1Pin, ! reverse); digitalWrite (in2Pin, reverse);} Rotate the potentiometer to control the speed of the engine and press the button to change the direction. Gestures can say so much without words, whether you're just cut off in traffic or trying to run a PC command. Instead of reaching a menu or even typing a key shortcut, use mouse gestures to activate these commands. You create a loop to print, a Z shape to open the world's PC website, scroll up-then-down to close a window, and more. Some PCs, especially laptops, start reading these kinds of commands in their mouse drivers. So you add functionality to each PC. You have several gesture programs to choose from, including gMote and Strokelt. I love gMote mainly because it doesn't need a deep installation, it is just active while running, like a normal application. By default, you hold Ctrl and Shift while making gestures. Match a shape that recognizes the application - or one you've included - and it activates a corresponding function. Some web browsers also offer gesture plug-ins. Mouse gestures Redox adds support within Firefox. Rocker gestures are my favorite extras here, reading specialized mouse clicks to execute commands. For example, I just have to rock between the right and left buttons to jump back, or from left to right to jump forward. After only a few days, these commands become second nature, saving time in general use. Note: If you buy something after clicking on links in our articles, we can earn a small commission. Read our affiliate link policy for more details. 11 oz. / 325 ml capacity ceramic mug. Manufactured with Cactus Coatings for vibrant colors. Durable design and comfortable C-handle. 15 oz. / 450 ml capacity ceramic mug. Manufactured with Cactus Coatings for vibrant colors. Durable design and comfortable C-handle. HOW CAN I CONTACT YOU? Our customer service email is [storesupport@motortrend.com](mailto:storesupport@motortrend.com) how long does it take to receive my order? Orders typically take 7 to 10 business days to ship, depending on the order. All MotorTrend orders are custom-made and printed on-demand. The delivery time depends on your location and size of your order. HOW CAN I KEEP TRACK OF MY ORDER? You will receive a confirmation email when we receive your order. 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We currently only ship to the United States and Canada, with the exception of car accessories, which only ship in the contiguous United States and do not ship to Alaska, Hawaii, Puerto Rico or Canada. Hello everyone, I'll show you how to make a simple pwm control dc engine speed controller... You also like the brightness of an LED light... So this is a two in one circuit... order the PCB from [jcpb.com](http://jcpb.com) which offers a good quality PCB on a cheap budget. I bought 10 pc's at 2\$..... this is very cheap.... Free shipping on First Order & \$2 PCB Prototyping on main equipment in this circuit is ic 555....In this setup we use ic 555 as an astable multivibrator... where it produce square waves..... In this setup, we can control the task cycle by varying the preset.... The output of the ic 555 is fed to an npn power transistor that can handle larger loads.... you use an npn power transistor or an n-channel mosfet.... if you want to control the LED brightness, just connect it to the transistor & positive power supply, but if you want to control the speed of a DC engine, connect a 1n4007 or 1n4148 diode over the engine terminal & connect it to the transistor & positive power supply..... My youtube channel- ... channel- ...

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