

H Bridge Driver for Brushed DC Motors - basic explanations...



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GeoffreyThorpe123 • 1/7 videos



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This video series goes through the basic concepts behind H bridge drivers and shows how to construct a driver circuit for a brushed DC motor. And, shows the circuit in use to drive a small robotic arm via Labview.

Topics:

Brushed DC motors - Part 1

H Bridge circuit fundamentals, Back EMF, inductive voltage spikes - Part 2

H Bridge with discrete transistors - Part 3

Practical considerations - pull-up / pull-down - Part 3

Circuit layout for H Bridge integrated circuit (TI SN754410) - Part 4

Perforated board layout / soldering. - Part 5

Finish soldering and board testing - Part 6

Demonstration of the board in use. Part 7

Work was done in the robotics lab at Lawrence Technological University in Southfield Michigan (www.ltu.edu). Lawrence Tech. offers a Bachelor of Science degree in Robotics Engineering. <http://www.ltu.edu/engineering/innova...>

The robot arm is an Armatrol Robot Mark II, Model ESA 1010 made by Feedback Inc. These do not appear to be available any more and I believe that the original company may no longer exist.

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Moises Daniel Garcia Rojas 2 years ago

Hi Geoffrey I'm an engineering student, and I liked a lot your videos about the H-bridge; I wonder if you could upload a video of a H-bridge with MOSFETs



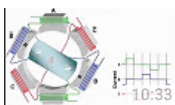
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[Andrea Valenzuela](#) 3 years ago

Very cool, I had two of these sitting around my highschool, i rewired one to work with victors speed controllers and a cRio. I wish i this was up at the time, it's a much more portable alternative.

- 34:12

DC MOTORS AND GENERATORS

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H Bridge DC motor. - bi directional - very simple.


Yeah Kyle

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