ECSESS Roboelectronics

H-bridge build slides

Goals for Today

- Connect your motors to the H-bridge chip
 - Use the voltage regulator to get the correct voltage
- Connect your pic16f88 to the H-bridge and control your motors
 - Write some functions to control the movement of your robot

Next Week

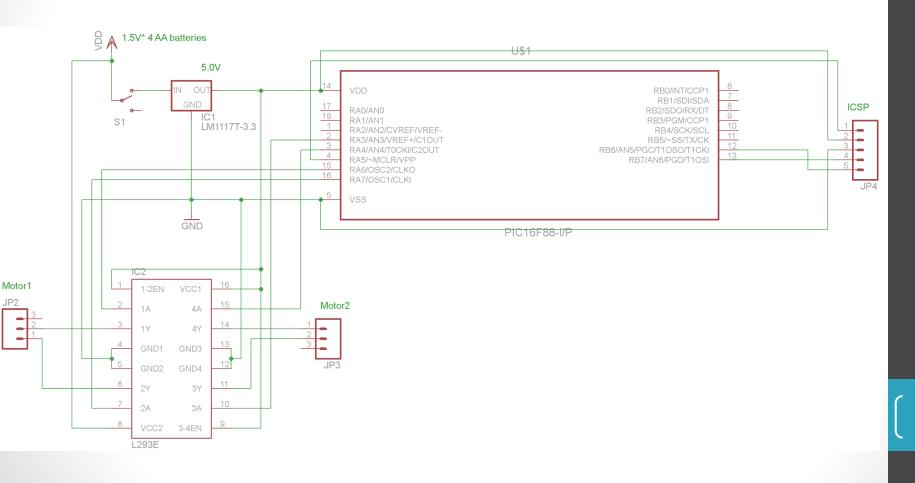
 Combined concepts: Putting all the elements together to get a working robot

Required Material

- Circuit
 - PIC16F88
 - PicKit3
 - L293d H-bridge
 - Motors
 - 4x AA battery holder

- Robot
 - Complete your chasis and put everything together

Circuit to build



Resources

- Datasheets
 - L293d (H-bridge): http://www.ti.com/lit/ds/symlink/l293d.pdf
 - PIC16F88: http://ww1.microchip.com/downloads/en/DeviceDoc/30487D.pdf
 - Motors: http://www.pololu.com/file/download/fa_130ra.pdf?
 file id=0J11
- Further Reading
 - Microchip application note about DC Motors: http://ww1.
 microchip.com/downloads/en/appnotes/00905a.pdf