

Extra Credit

In Lab 1 you were to create a circuit showing how you would add another motor and control it using the microcontroller and H-Bridge chips. For extra credit, modify your code to use this modified circuit and demonstrate it.

Begin by programming Timer 2 to control the second motor. The code should be very similar to that used to setup and control the first motor. Now, use your switch to toggle between the following states whenever it is pressed:

1. Forward
2. Go through the following sequence:
 - a. Reverse (2 seconds);
 - b. Turn Right (1 second);
 - c. Forward
3. Stop

This will require you to modify the code for the motor() and ISR() routines as well as using the delay functions (look at slide 48 in the microcontroller notes for an example).

Good Luck!