H-Bridge Motor Control

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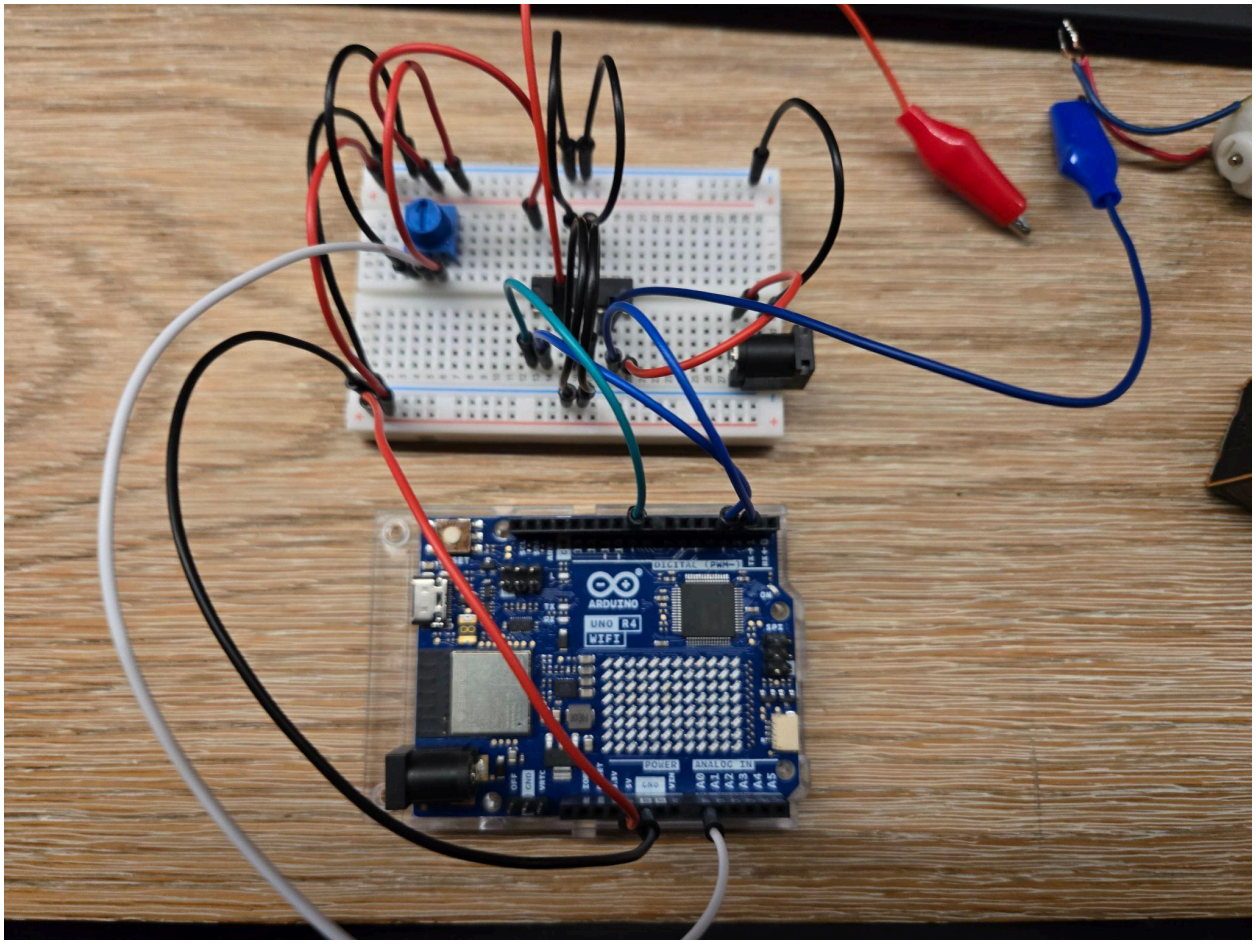
9
10  //H-bridge Motor Control
11  const int EN=9;   //Half Bridge 1 Enable
12  const int MC1=3;  //Motor Control 1
13  const int MC2=2;  //Motor Control 2
14  const int POT=A0;  //POT on Analog Pin 0
15
16  int val = 0;      //for storing the reading from the POT
17  int velocity = 0; //For storing the desired velocity (from 0-255)
18
19  void setup()
20  {
21      pinMode(EN, OUTPUT);
22      pinMode(MC1, OUTPUT);
23      pinMode(MC2, OUTPUT);
24      Serial.begin(9600);
25      brake(); //Initialize with motor stopped
26  }
27
28  void loop()
29  {
30      val = analogRead(POT);
31      Serial.print("Potentiometer: (");
32      Serial.print(val);
33      Serial.print(") <=> Motor: (");
34      //go forward
35      if (val > 562)
36      {
37          velocity = map(val, 563, 1023, 0, 255);
38          forward(velocity);
39          Serial.print(velocity);
40      }
41
42      //go backward
43      else if (val < 462)
```


ARDUINO
UNO R4
WIFI
DIGITAL (PWM~)
POWER
ANALOG IN