A red circuit board with many different components

Description automatically generated

Variable Setup

//Setup variables for the speed pins

int Left\_Speed\_Pin = 10;    //ENA

int Right\_Speed\_Pin = 5;    //ENB

//Setup variables for the direction pins

int Left\_CW\_Pin = 9;        //IN1

int Left\_CCW\_Pin = 8;       //IN2

int Right\_CW\_Pin = 7;       //IN3

int Right\_CCW\_Pin = 6;      //IN4

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Direction Control

//Left Clockwise

  digitalWrite(Left\_CW\_Pin, HIGH);

  digitalWrite(Left\_CCW\_Pin, LOW);

  //Left Counter-Clockwise

  digitalWrite(Left\_CW\_Pin, LOW);

  digitalWrite(Left\_CCW\_Pin, HIGH);

  //Right Clockwise

  digitalWrite(Right\_CW\_Pin, HIGH);

  digitalWrite(Right\_CCW\_Pin, LOW);

  //Right Counter-Clockwise

  digitalWrite(Right\_CW\_Pin, LOW);

  digitalWrite(Right\_CCW\_Pin, HIGH);

  Speed Control

//Motors Full Speed

  analogWrite(Left\_Speed\_Pin, 255);

  analogWrite(Right\_Speed\_Pin, 255);

  //Motors Half Speed

  analogWrite(Left\_Speed\_Pin, 128);

  analogWrite(Right\_Speed\_Pin, 128);

  //Motors Stop

  analogWrite(Left\_Speed\_Pin, 0);

  analogWrite(Right\_Speed\_Pin, 0);