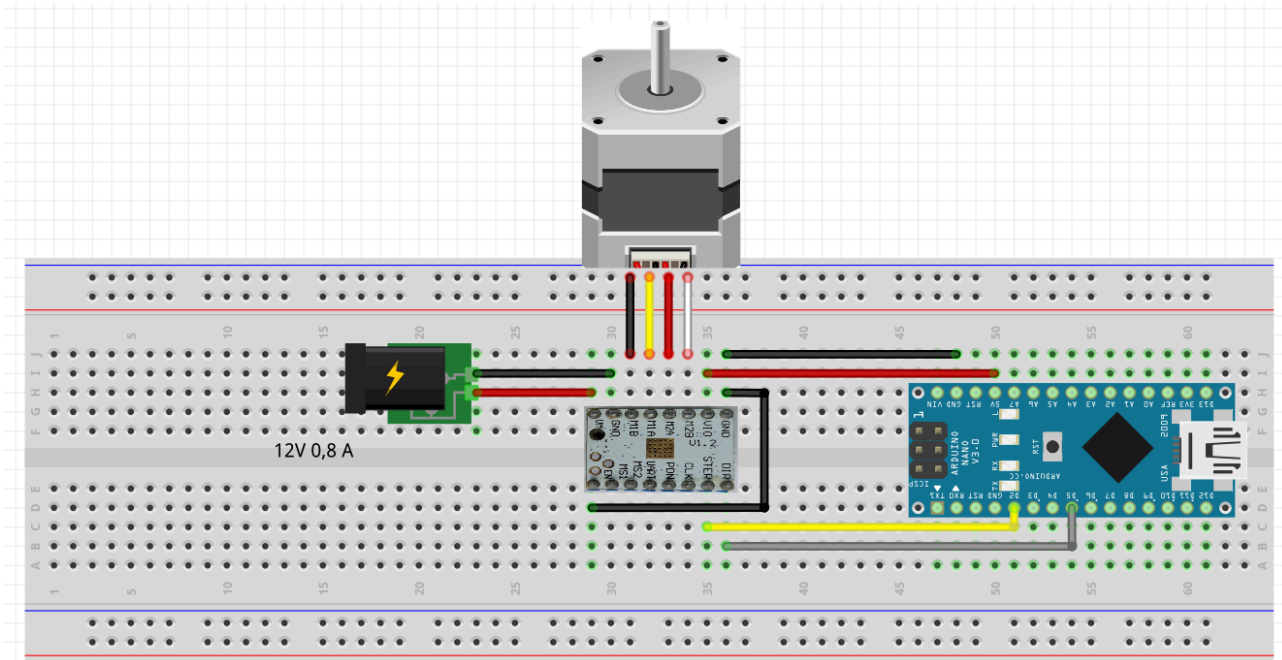# Zebra stepper motor met TMC2208 en Arduino Nano


```
// defines pins
#define stepPin 2
#define dirPin 5

void setup() {
  // Sets the two pins as Outputs
  pinMode(stepPin,OUTPUT);
  pinMode(dirPin,OUTPUT);
}
void loop() {
  digitalWrite(dirPin,HIGH); // Enables the motor to move in a particular direction
  // Makes 200 pulses for making one full cycle rotation
  for(int x = 0; x < 1600; x++) {
    digitalWrite(stepPin,HIGH);
    delayMicroseconds(75);    // by changing this time delay between the steps we can
change the rotation speed, value between 75-700
    digitalWrite(stepPin,LOW);
    delayMicroseconds(75); //75-700
  //  delay(1);
  }
  delay(1000); // One second delay

  digitalWrite(dirPin,LOW); //Changes the rotations direction
  // Makes 400 pulses for making two full cycle rotation
  for(int x = 0; x < 800; x++) {
    digitalWrite(stepPin,HIGH);
    delayMicroseconds(75); //75-700
    digitalWrite(stepPin,LOW);
    delayMicroseconds(75); //75-700
  }
  delay(1000);
}
```