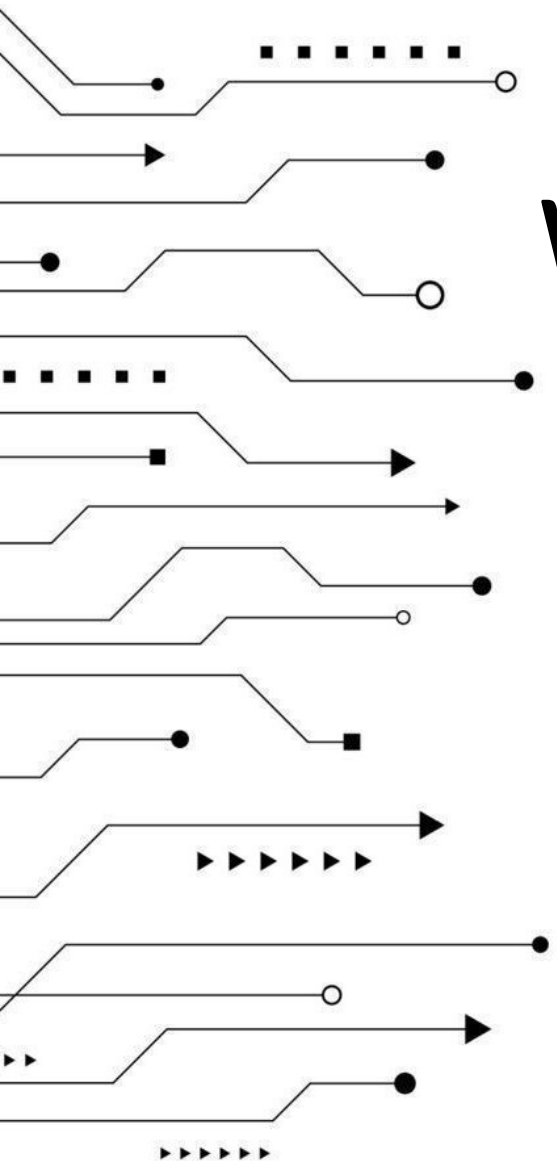


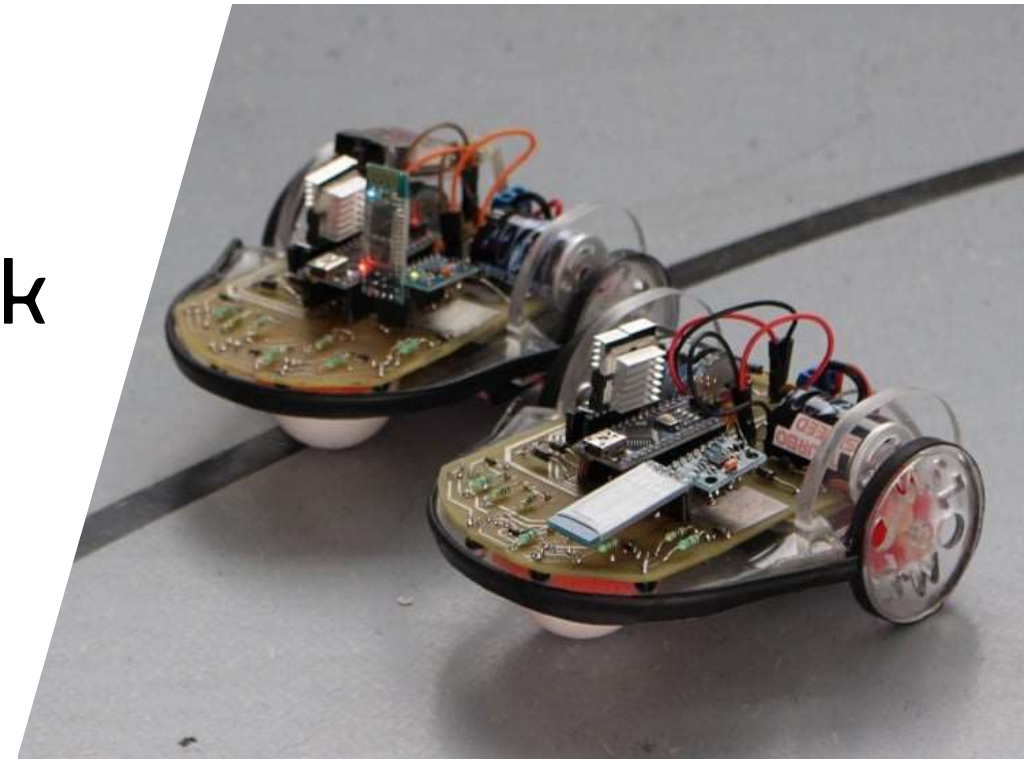
Vonalkövető autó 2.0

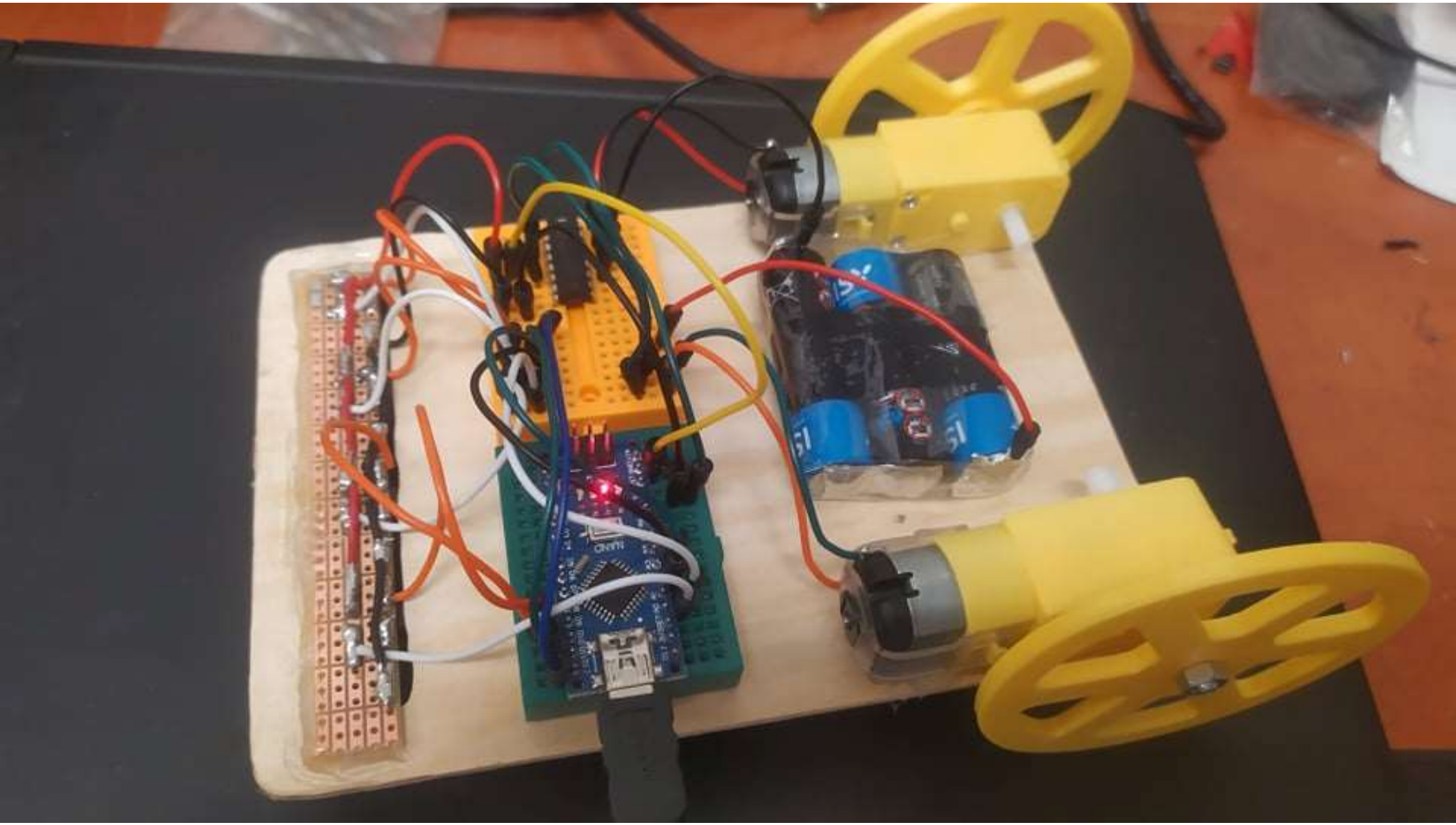
MSZD

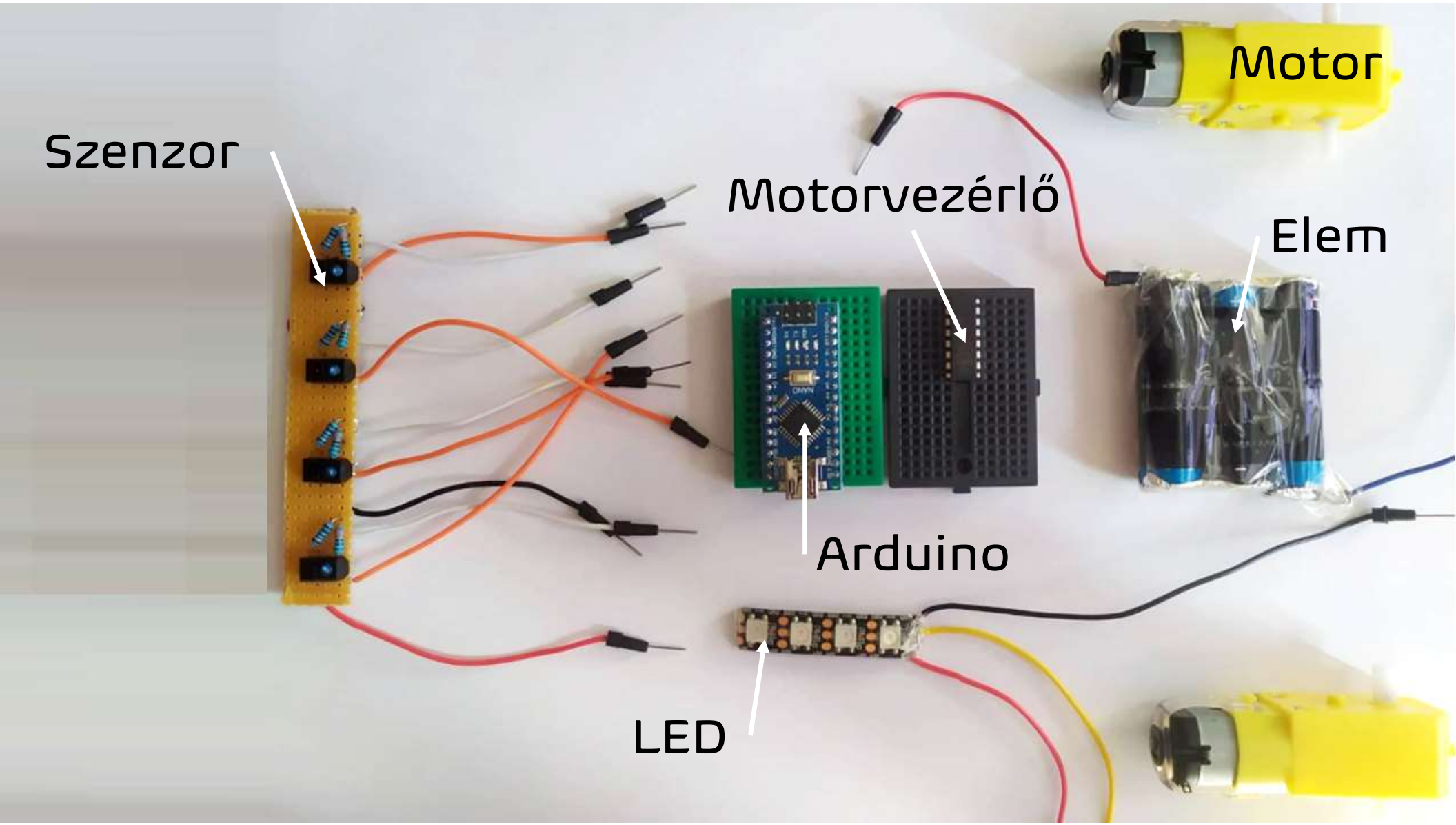
MECHATRONIKA SZAKOSZTÁLY

Mivel tud többet?

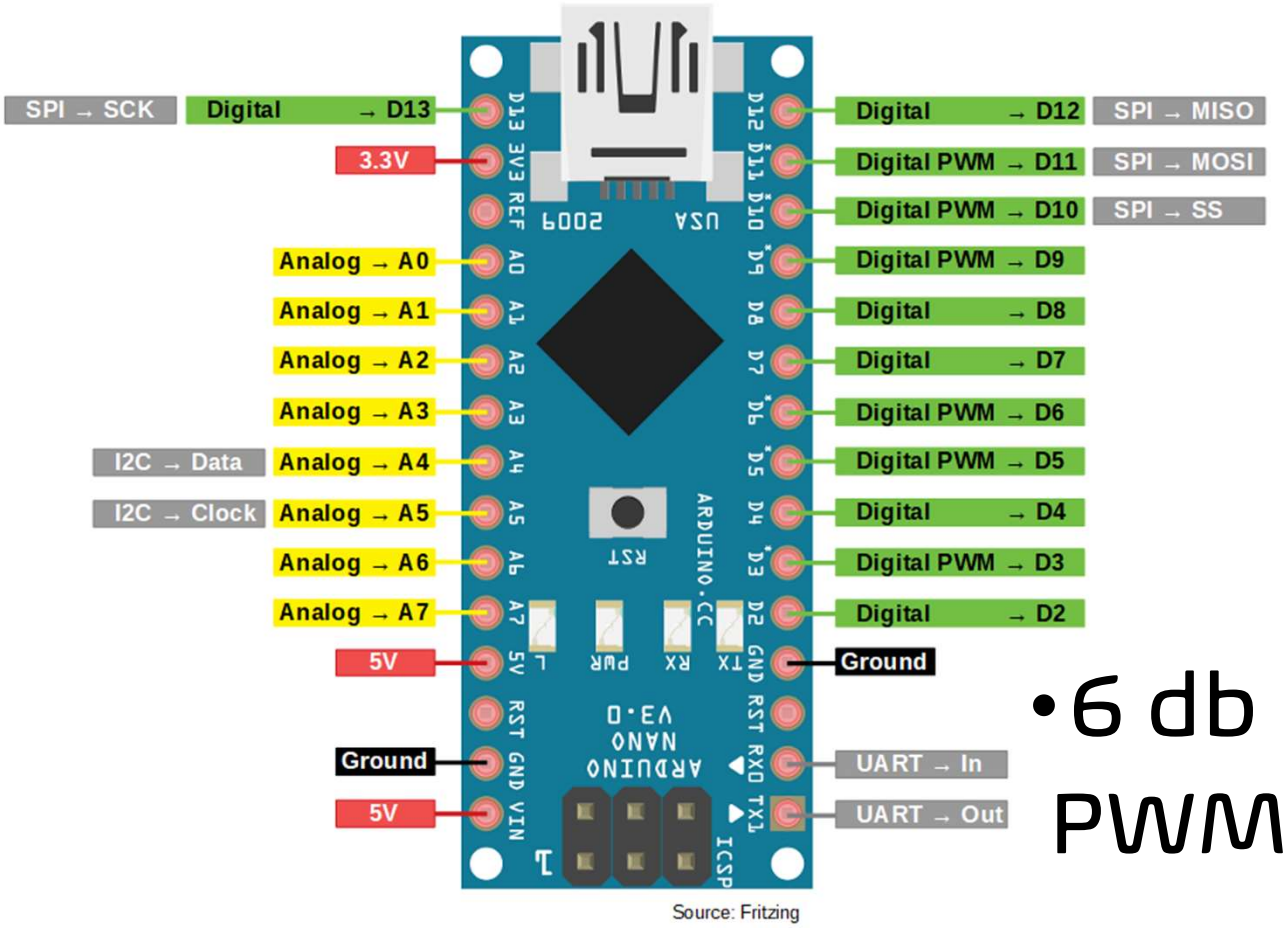
- Semmivel
- De működik
- RIP 1.0






Motor
Szenzor
Motorvezérlő
Elem
Arduino
LED

Arduino Nano



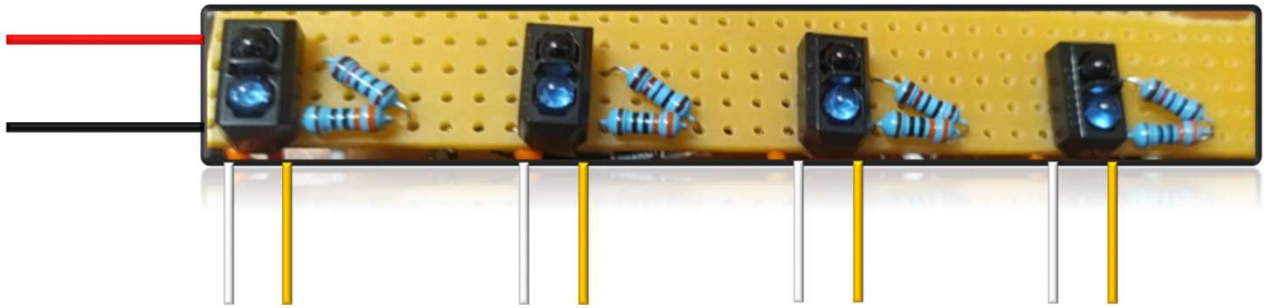
Source: Fritzing

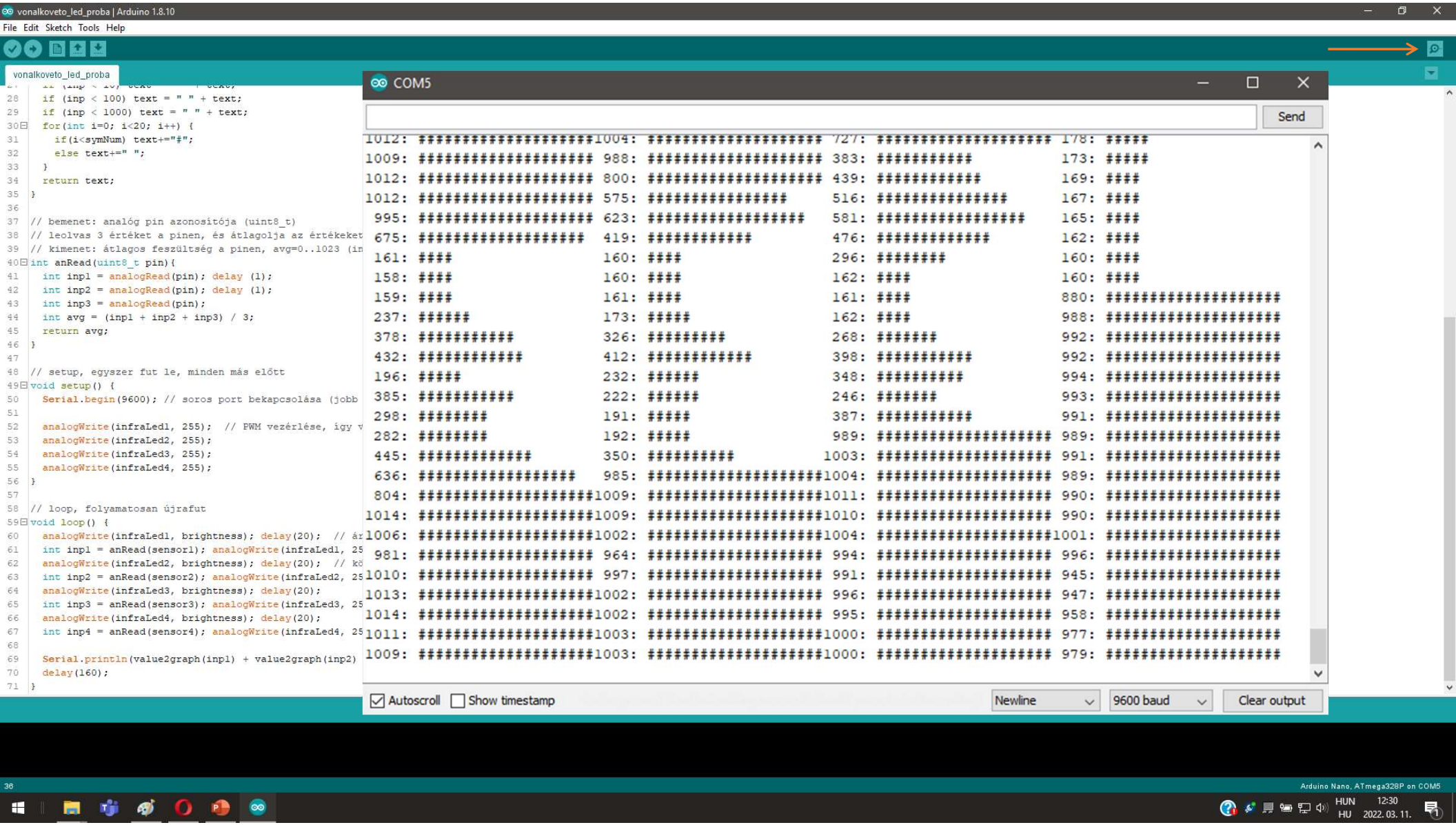
- 6 db PWM pin

Érzékelő

- GND
- 5 Volt
- 4x PWM input

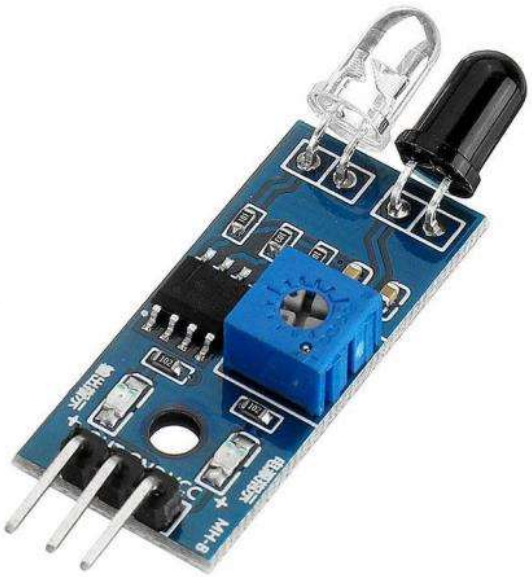
4x analóg output

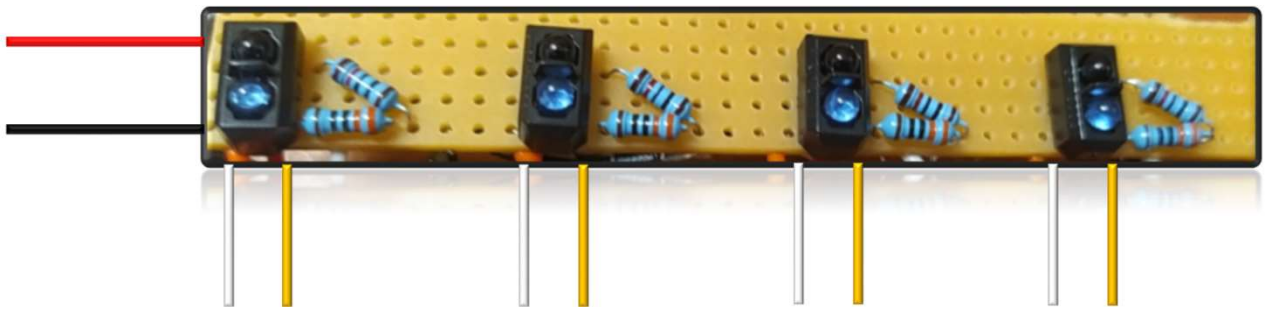



vonalkoveto_led_proba | Arduino 1.8.10
File Edit Sketch Tools Help
vonalkoveto_led_proba
COM5
Send
Autoscroll
Show timestamp
Newline
9600 baud
Clear output
Arduino Nano, ATmega328P on COM5

Érzékenység állítása

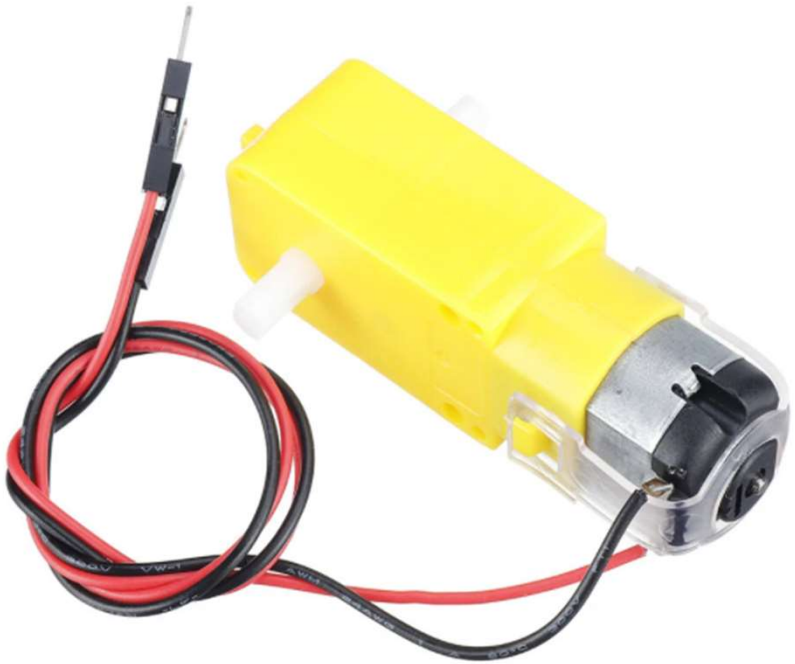
- Narancs kábelen
- Kikapcs:
  analogWrite(9, 255);
- Bekapcs:
  analogWrite(9, 50);



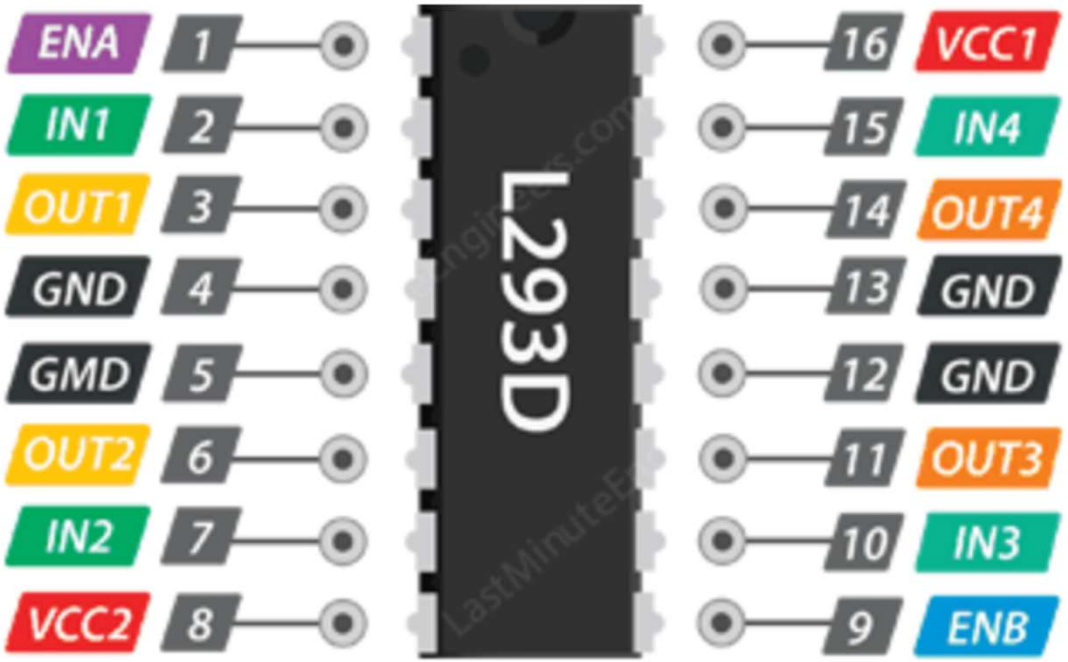


Motor

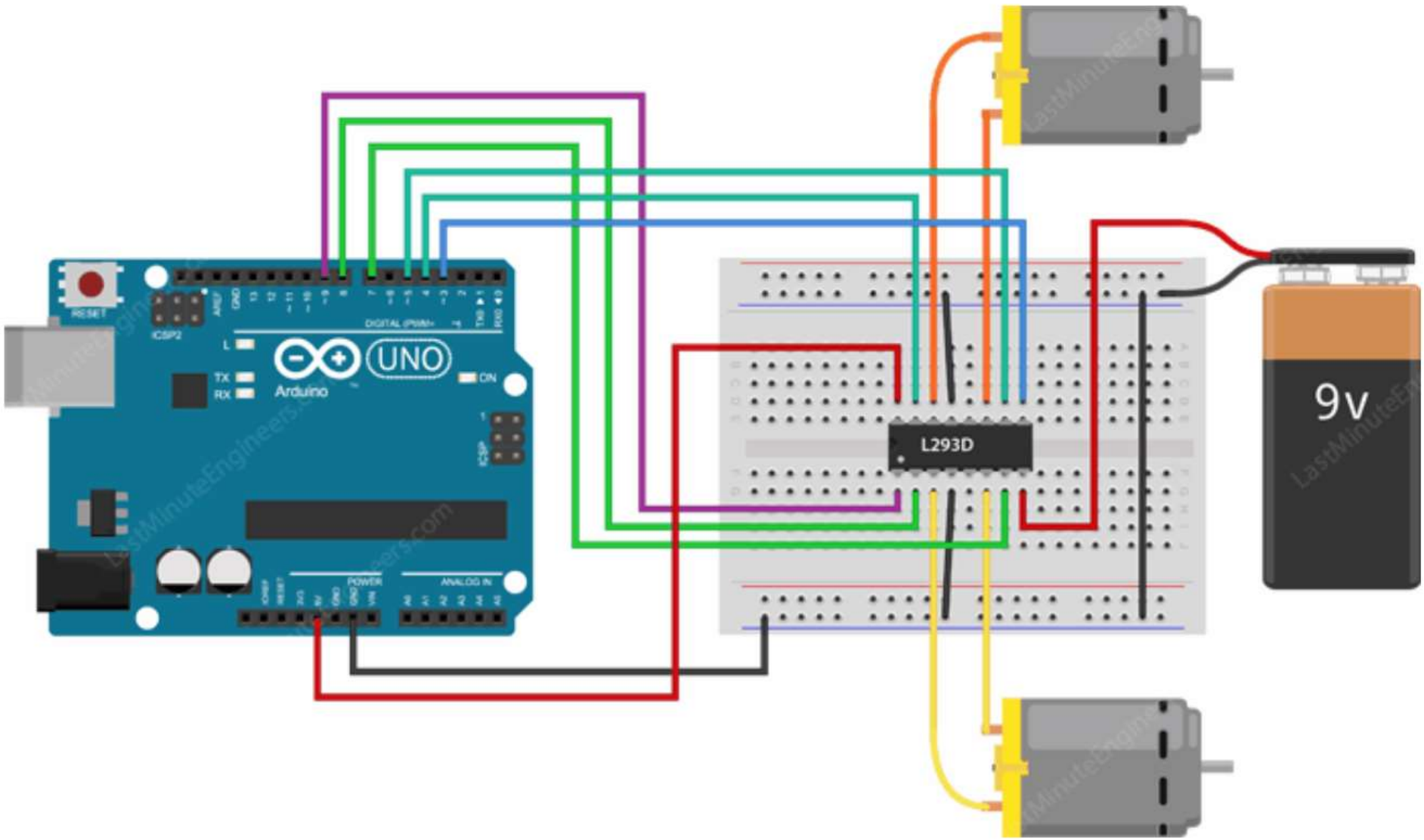
- 2 db DC motor
- 1:48-as áttétel
- 3-6 Volt



Motorvezérlés

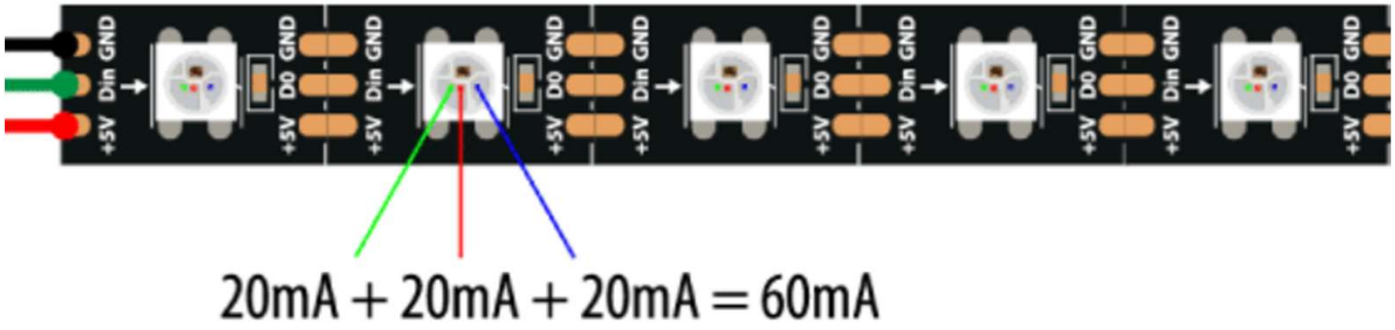


- 4 db PWM vagy digitális pin

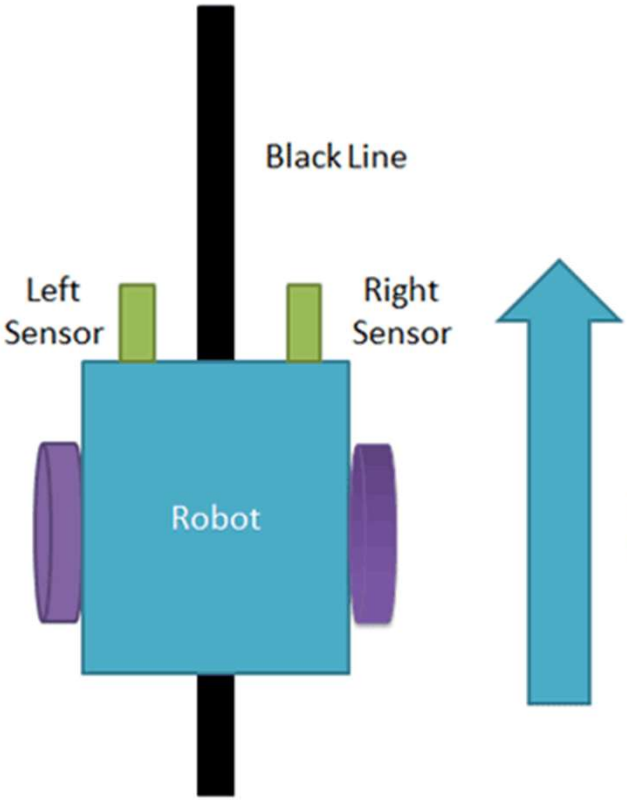

RESET
ICSP2
DIGITAL (PWM~)
UNO
Arduino
ON
TX
RX
ICSP
POWER
ANALOG IN
L293D
9v

Dekor LED

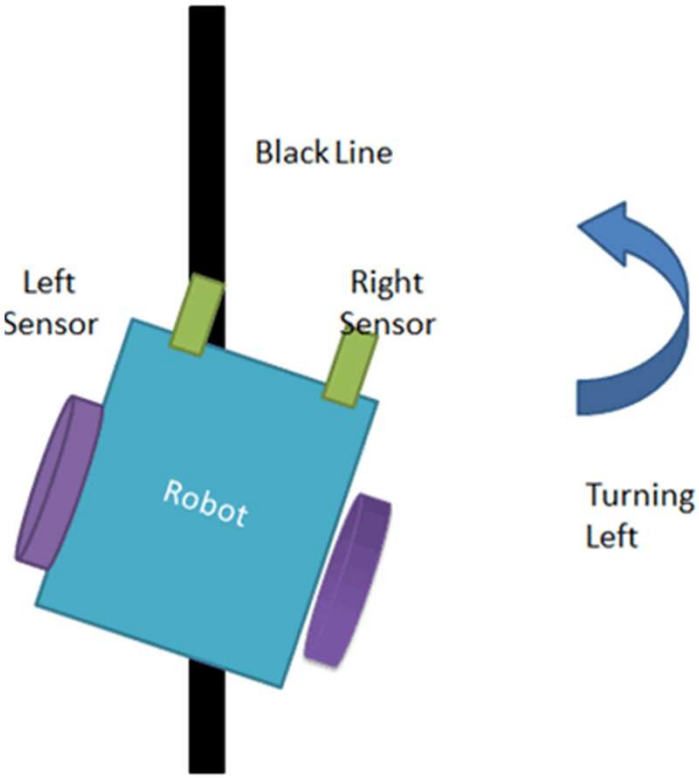
- WS2812B
- Vezérlés: FastLED library
- Ha sikerül összeforrasztanom



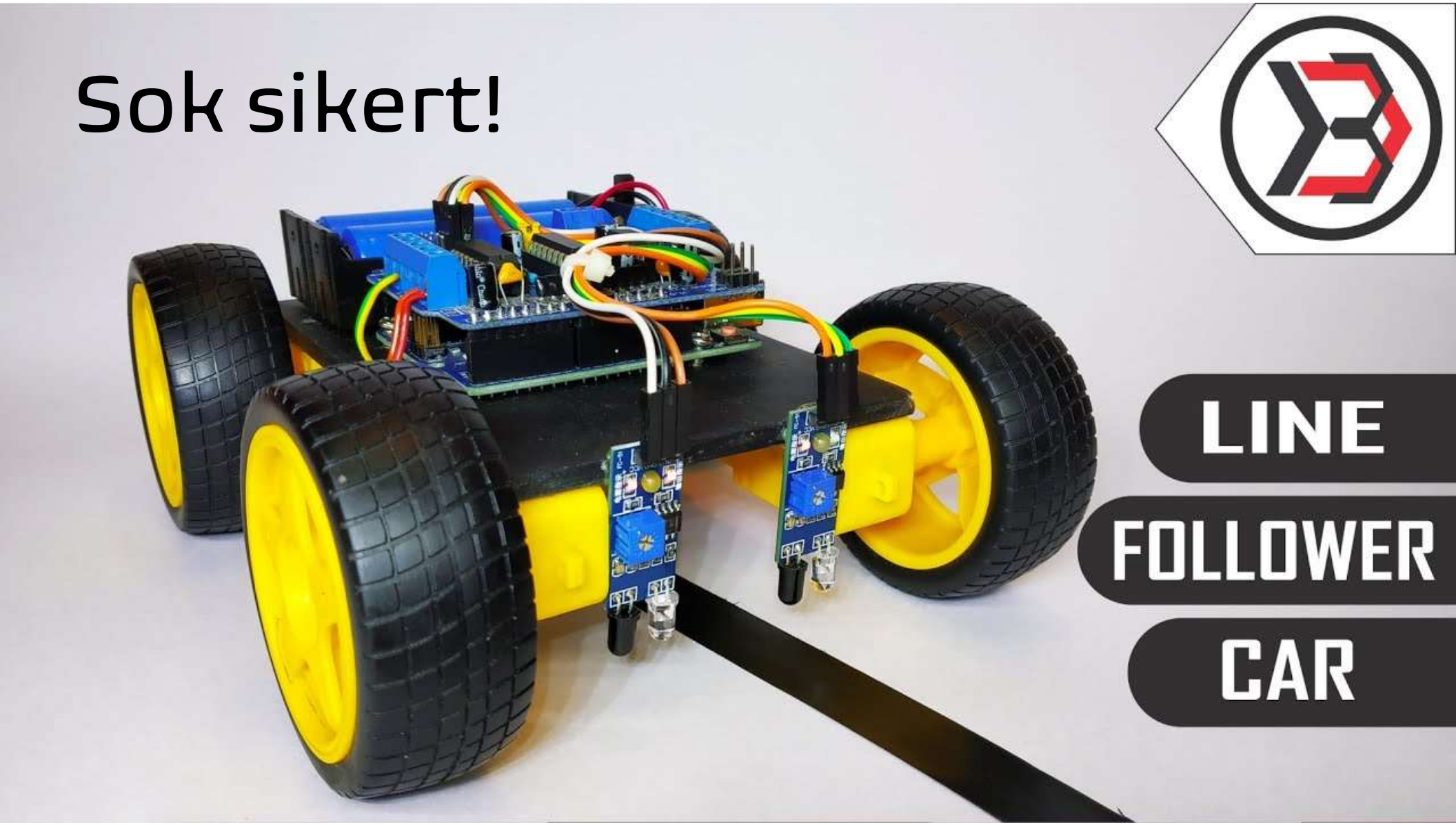
Feladat



Moving Forward



Turning Left


Sok sikert!
LINE
FOLLOWER
CAR