



PROGRAMMATOR

Mechathon

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Tatli presents

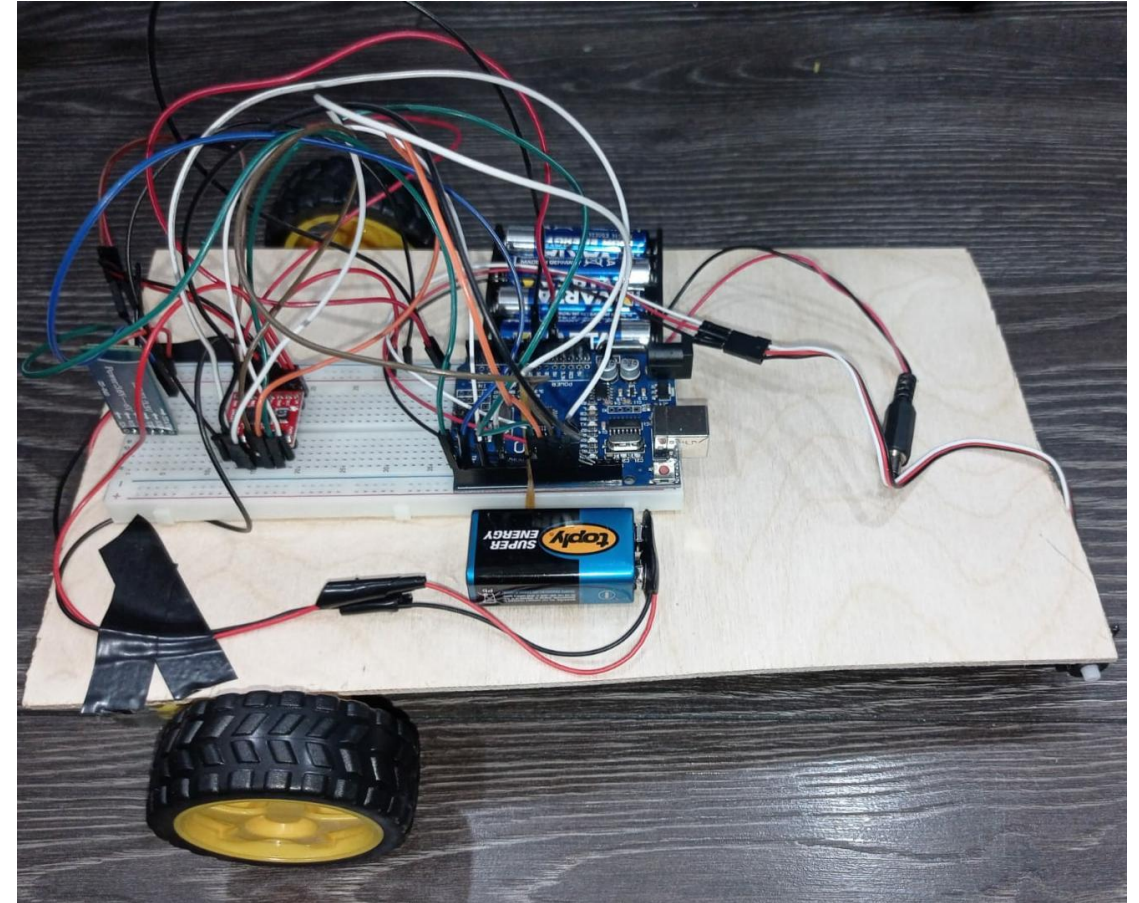
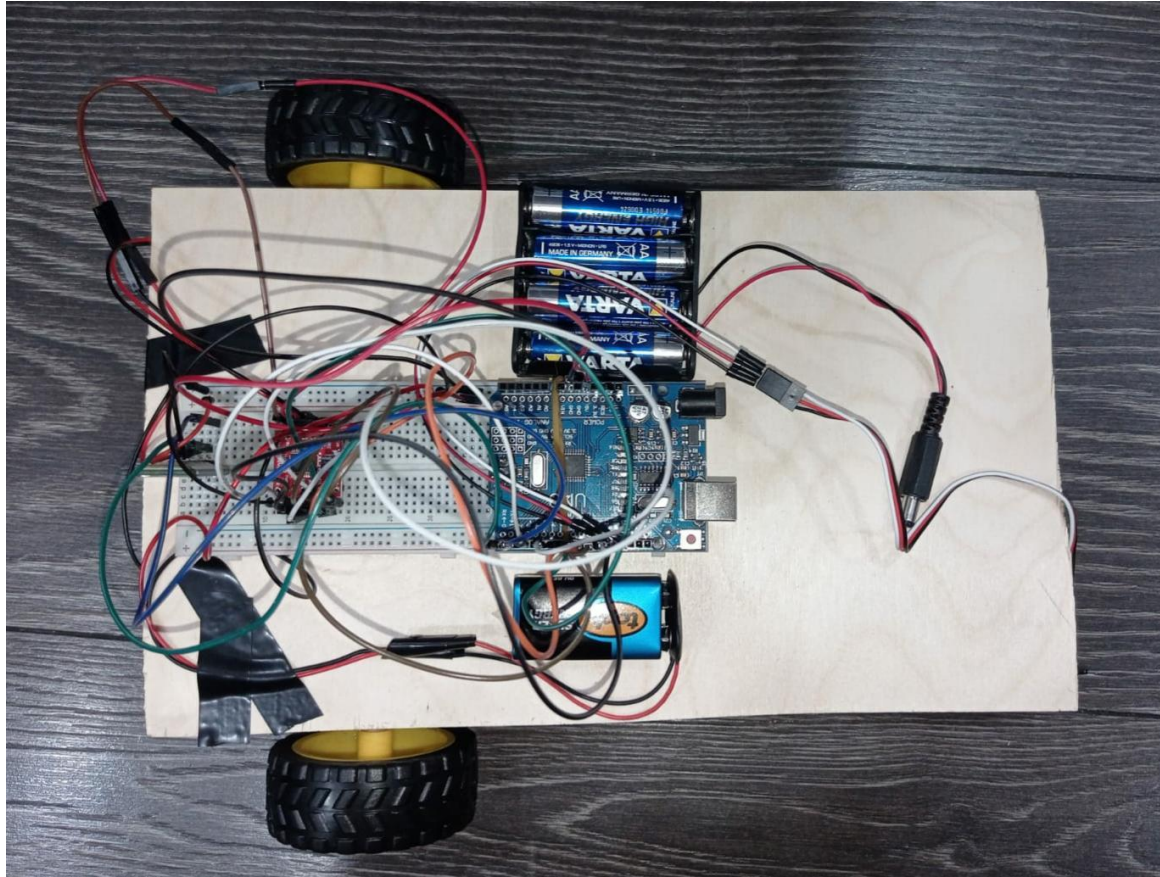


Are you ready for the magnificent future of digital education and entertainment with Mechatthon?

- [Schoology](#) – Tools to support instruction, learning, grading, collaboration and assessment.
- We have established our target audience and purpose with the term schollogy introduced by UNESCO.



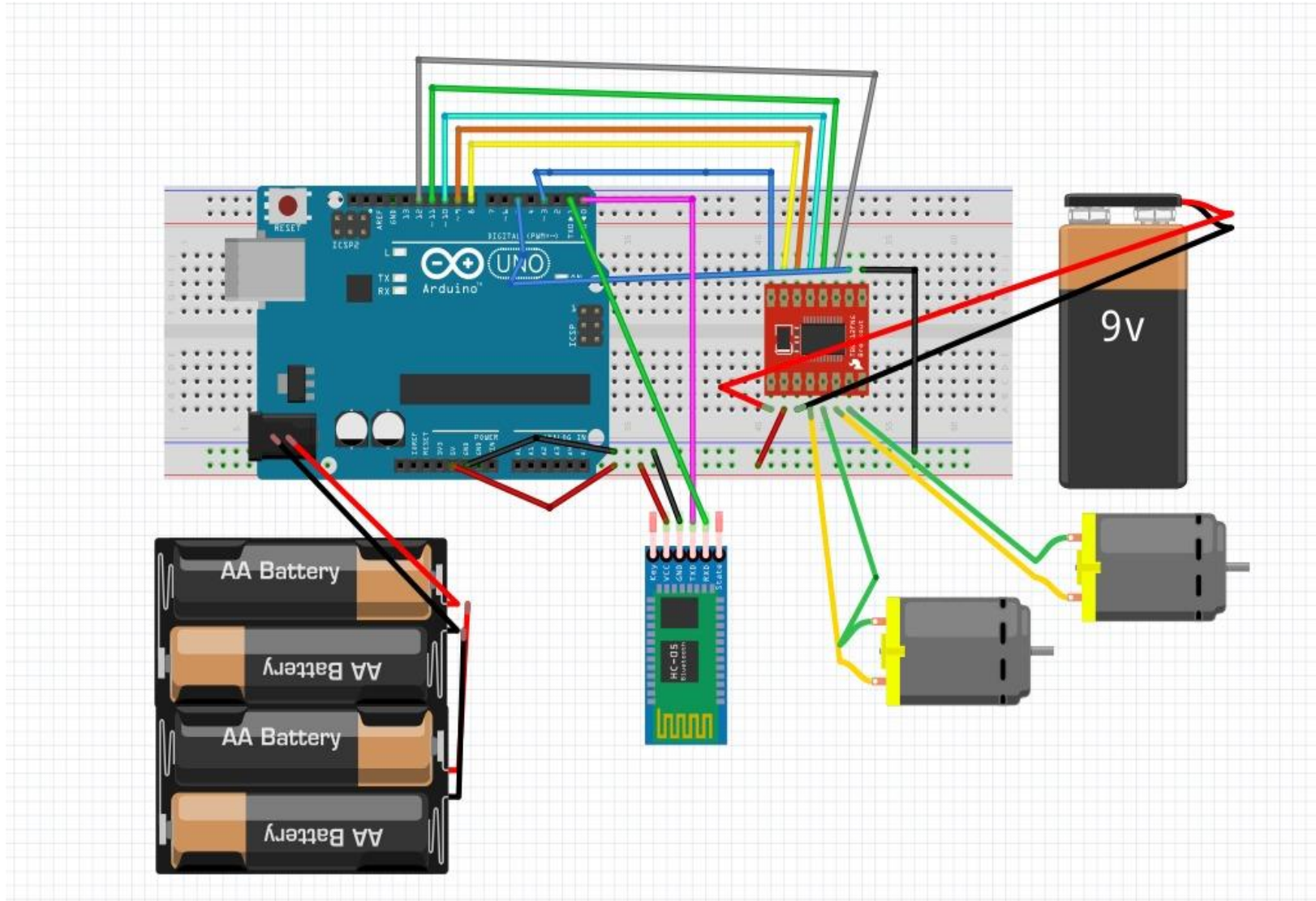
- Our mechaton vehicle, which is our project for K-12 education, to introduce and endear the mecha-digital world to students of all ages.



Tools and supplies

- 1 x 4 AA 1.5V battery bed;
- 4 1.5V batteries;
- 1 x 9V battery;
- 1 Arduino Uno;
- 2 geared 3-6V motors;
- 2 wheels;1 rotating wheel;
- 1 x HC-0-6 bluetooth module;
- 1 x TB6612FNG motor driver;
- 15 female jumper cables;
- 20 male jumper cables;
- Double-sided tape, insulating tape, silicone and silicone gun, wooden body

Mechathron as schema;



The codes

- `#include <Servo.h>`
- `Servo kol;`
- `int pwma = 3;`
- `int pwmb = 5;`
- `int ain1 = 8;`
- `int ain2 = 9;`
- `int stby = 10;`
- `int bin1 = 11;`
- `int bin2 = 12;`
- `int veri;`
- `void setup() {`
- `pinMode(pwma, OUTPUT);`
- `pinMode(pwmb, OUTPUT);`
- `pinMode(ain1, OUTPUT);`
- `pinMode(ain2, OUTPUT);`
- `pinMode(bin1, OUTPUT);`
- `pinMode(bin2, OUTPUT);`
- `pinMode(stby, OUTPUT); Serial.begin(9600); kol.attach(13); kol.write(150); analogWrite(pwma, 100); analogWrite(pwmb, 100);}void loop() { digitalWrite(stby, HIGH); if(Serial.available()) { veri = Serial.read(); Serial.println(veri); } else if(veri=='F') { up(); } else if(veri=='B') { down(); } else if(veri=='L') { left(); } else if(veri=='R') { right(); } else if(veri=='U') { kol.write(80); } else if(veri=='u') { kol.write(150); } else if(veri=='0') { analogWrite(pwma, 0); analogWrite(pwmb, 0); } else if(veri=='1') { analogWrite(pwma, 25); analogWrite(pwmb, 25); } else if(veri=='2') { analogWrite(pwma, 50); analogWrite(pwmb, 50); } else if(veri=='3') { analogWrite(pwma, 75); analogWrite(pwmb, 75); } else if(veri=='4') { analogWrite(pwma, 100); analogWrite(pwmb, 100); } else if(veri=='5') { analogWrite(pwma, 125); analogWrite(pwmb, 125); } else if(veri=='6') { analogWrite(pwma, 150); analogWrite(pwmb, 150); } else if(veri=='7') { analogWrite(pwma, 175); analogWrite(pwmb, 175); } else if(veri=='8') { analogWrite(pwma, 200); analogWrite(pwmb, 200); } else if(veri=='9') { analogWrite(pwma, 225); analogWrite(pwmb, 225); } else if(veri=='q') { analogWrite(pwma, 250); analogWrite(pwmb, 250); } else { digitalWrite(ain1, LOW); digitalWrite(ain2, LOW); digitalWrite(bin1, LOW); digitalWrite(bin2, LOW); }void up(){ digitalWrite(ain1, HIGH); digitalWrite(ain2, LOW); digitalWrite(bin1, HIGH); digitalWrite(bin2, LOW);}void down(){ digitalWrite(ain1, LOW); digitalWrite(ain2, HIGH); digitalWrite(bin1, LOW); digitalWrite(bin2, HIGH);}void left(){ digitalWrite(ain1, LOW); digitalWrite(ain2, HIGH); digitalWrite(bin1, HIGH); digitalWrite(bin2, LOW);}void right(){ digitalWrite(ain1, HIGH); digitalWrite(ain2, LOW); digitalWrite(bin1, LOW); digitalWrite(bin2, HIGH);}}`

THANKS FOR EVERYTHING HACHATHON2021!