

LiDAR Scanner

Introducere

Proiectul propune dezvoltarea unui sistem LiDAR low-cost care poate afișa în real-time o hartă a împrejurimilor.

Hardware Design

Piese:

1. Arduino UNO R3
2. Motor Stepper NEMA 17
3. Driver Stepper A4988
4. 2 x ToF Senzor VL53L0X
5. I2C Mux PCA9548
6. OLED I2C display 128×64
7. Placi de prototipare
8. Piloane și suruburi M3 pentru fixare



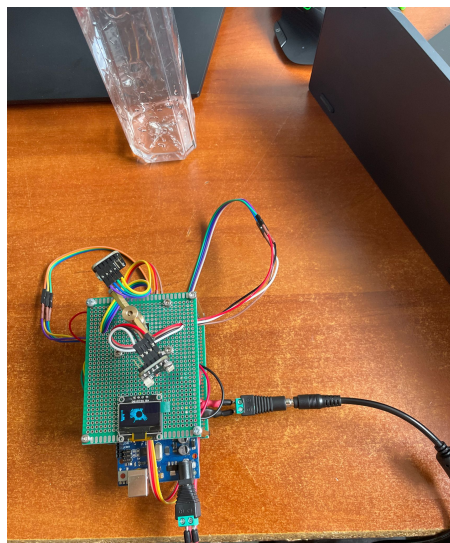
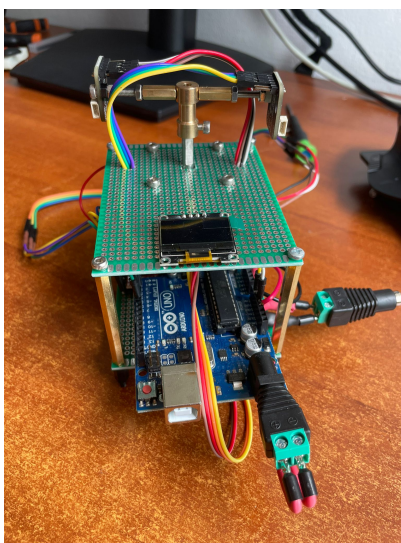
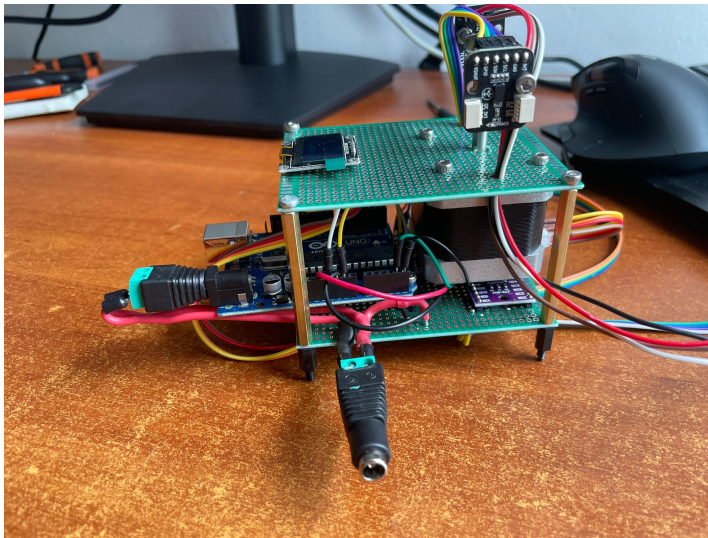
Software Design

Mediu de dezvoltare: Arduino IDE
Librării folosite:

- Wire.h
- VL53L0X.h
- U8g2lib.h

[Sursa](#)

Rezultate Obținute



Resurse

[A4988 Datasheet](#)

[PCA9548a Datasheet](#)

[VL53L0X library](#)

[U8g2 library](#)

[Export to PDF](#)

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