

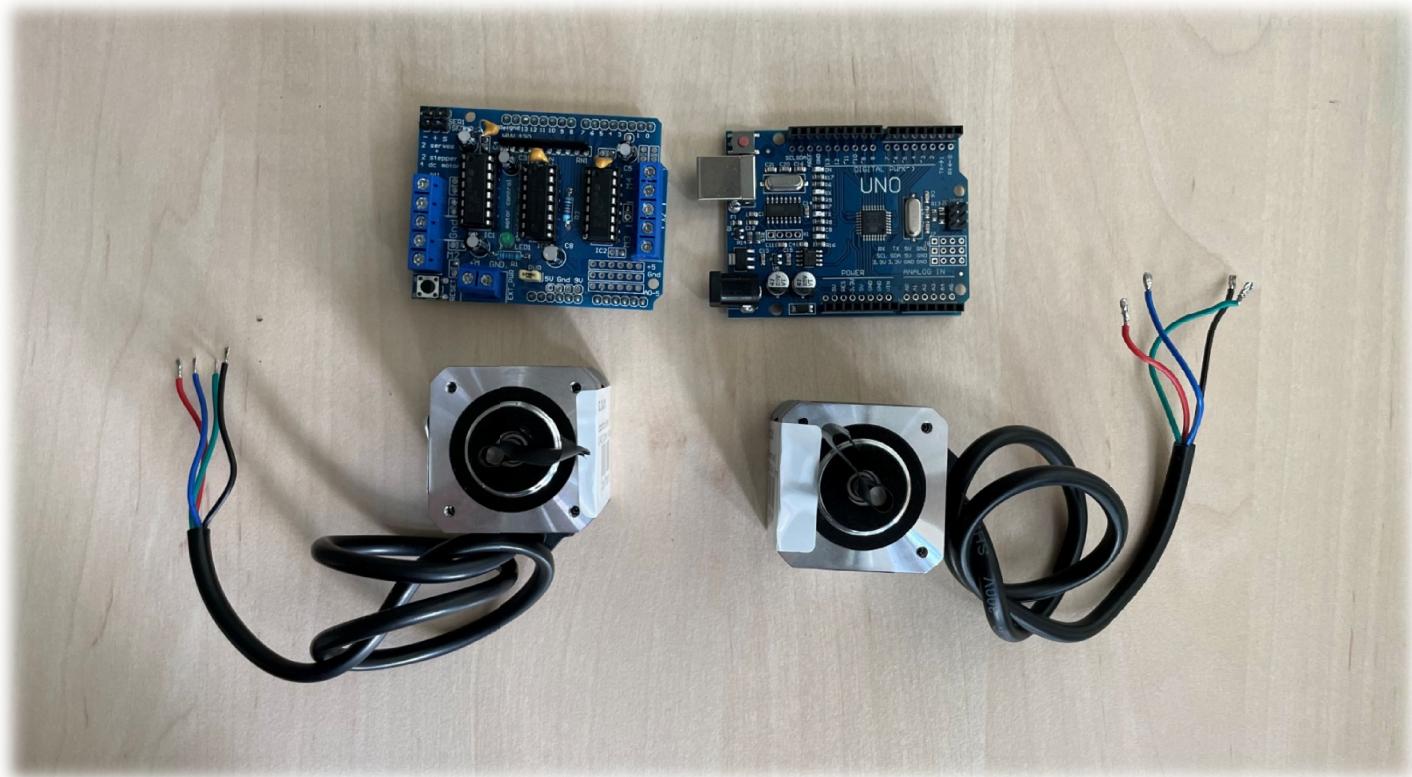
# ***USER MANUAL ZA PROJEKAT IZ LPRS 2 – STEPPER***

Podešavanje projekta:

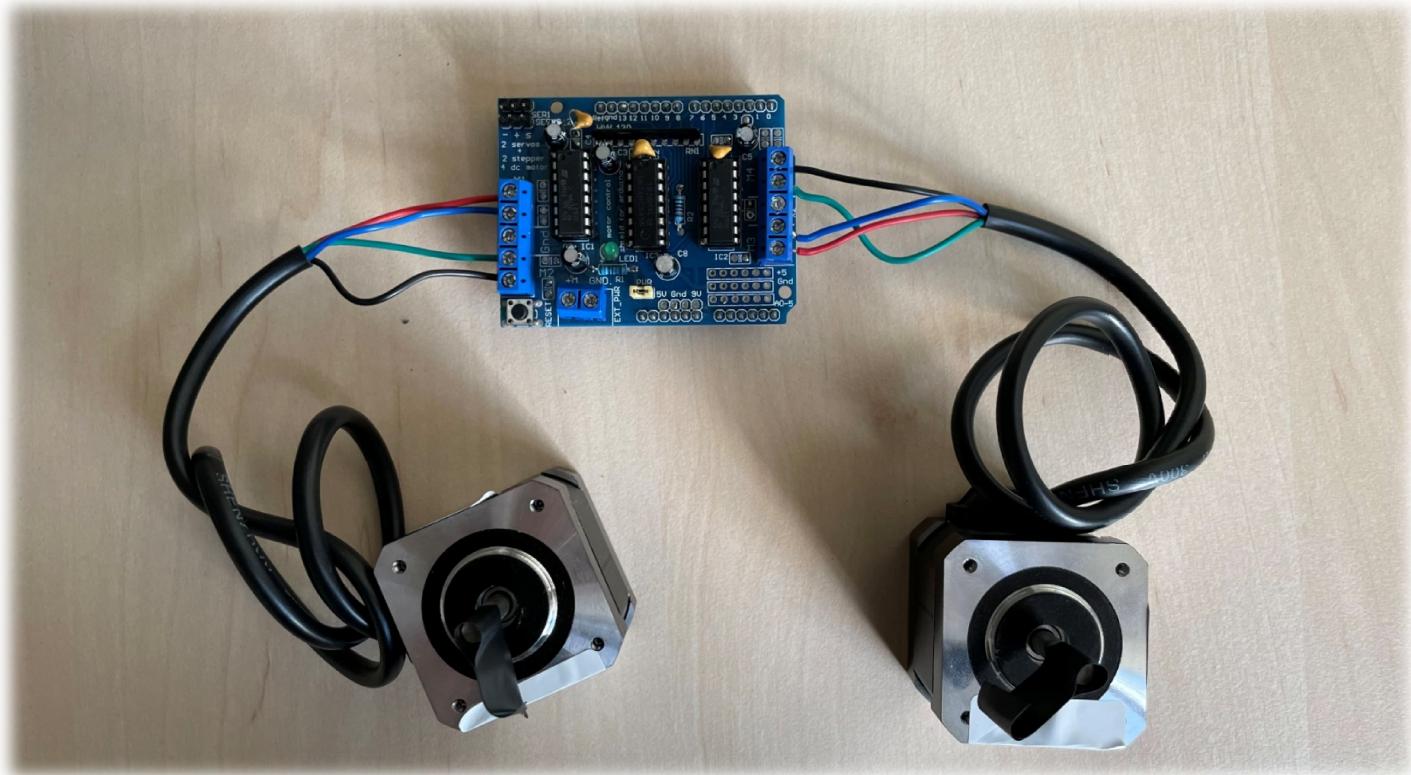
- Skinuti sa GitHub-a projekat : [https://github.com/Milosh00/LPRS2\\_Project](https://github.com/Milosh00/LPRS2_Project)
- Raspakovati i kopirati 'Arduino-Stepper' u lokalni folder C:\Users\PC\Documents\Arduino\libraries
- Otvoriti Arduino IDE i učitati biblioteku sa Sketch -> Include Library -> Arduino-Stepper
- Projekat (program) pronaći u File -> Examples -> Adafruit Motor Shield library
- Prebaciti program na Arduino UNO.
- Povezati step motore sa drajverom i arduinom.

Povezivanje arduina sa komponentama:

\*Potrebne komponente (2 x Nema 17, Arduino UNO, Arduino Driver Shield L293D)

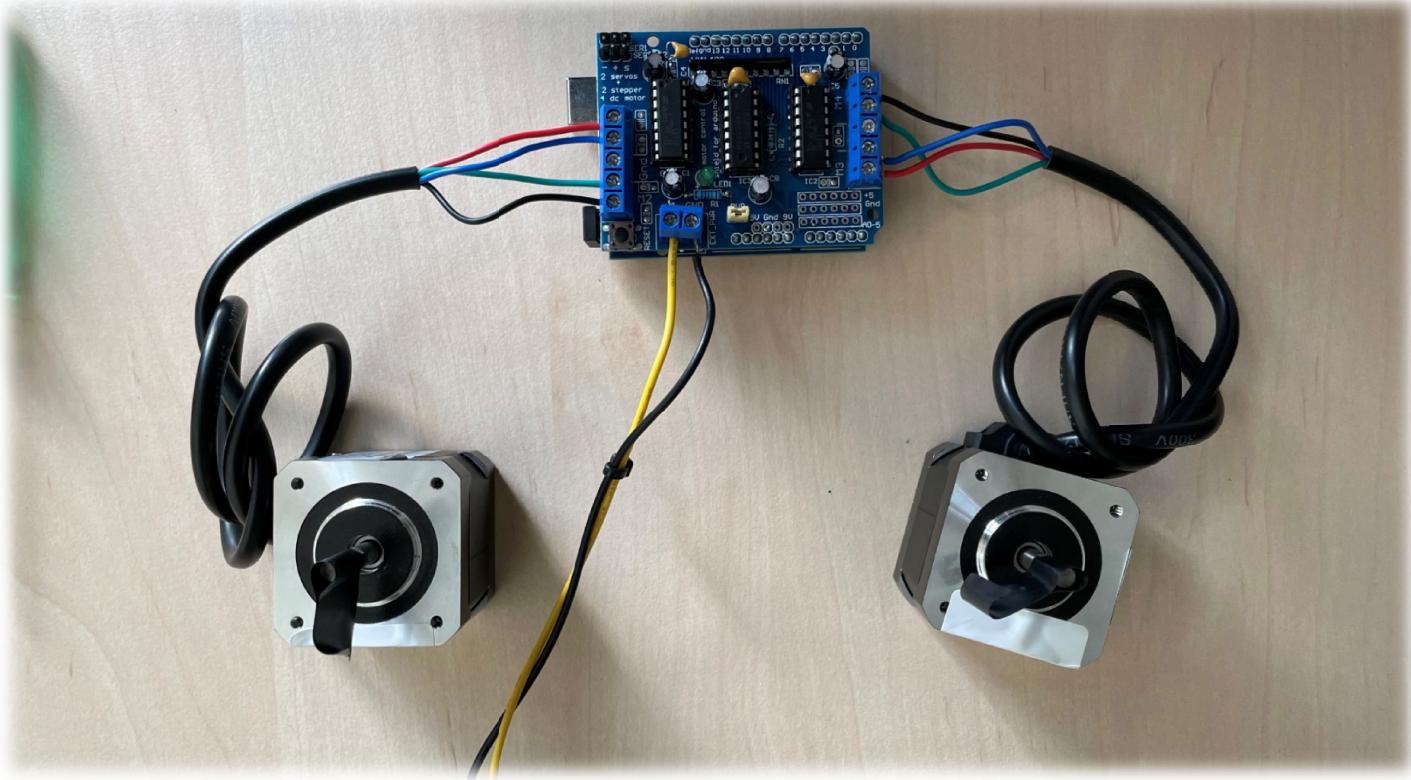


\*Korak 1 (Povezivanje motora sa drajverom)



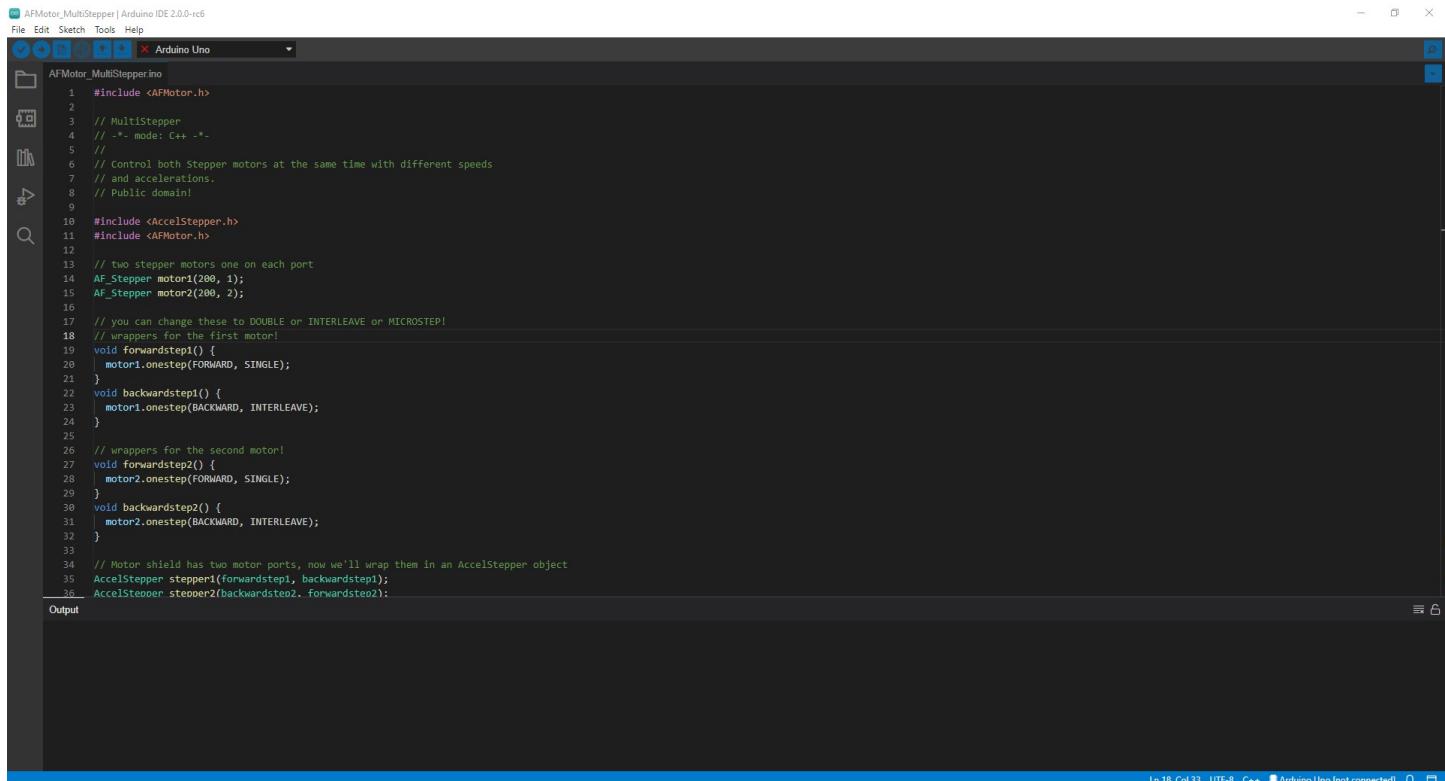
Opis : U dokumentaciji step motora pronaći šemu povezivanja – namotaje A i B (A+, A-, B+, B-). U našem slučaju kod step motora Nema 17 42AM04-G : Crvena -> A+ Plava -> A- Zelena -> B+ Crna -> B-.

## \*Korak 2



Opis : Drajver staviti na Arduino UNO. Na generatoru podesiti napon od 5V DC i ograničiti struju na 3 ampera i dovesti napajanje na šild (žuti i crni provodnik). Nema 17 42AM04-G step motori rade na 5V DC uz nominalnu struju od 1.2A. Ukoliko dovedete napon veći od 5V motor će početi da bruju i koči, a ukoliko ne ograničite struju postoji mogućnost da se motor pokvari.

### \*Korak 3



The screenshot shows the Arduino IDE interface with the following details:

- Title Bar:** AFMotor\_MultiStepper | Arduino IDE 2.0.0-rc6
- Menu Bar:** File Edit Sketch Tools Help
- Sketch Name:** AFMotor\_MultiStepper.ino
- Board:** Arduino Uno
- Code Area:** Contains the C++ code for controlling two stepper motors. The code includes includes for AFMotor.h and AccelStepper.h, defines for motor ports, and functions for forward and backward steps for both motors.
- Output Area:** Below the code area, it says "Output".
- Status Bar:** Ln 18, Col 33 UTF-8 C++ Arduino Uno [not connected]

Opis: Povezati Arduino UNO sa racunaram, podesiti COM Port i prebaciti program.

Video se nalazi na linku : <https://www.youtube.com/watch?v=twCc67NtOCQ>