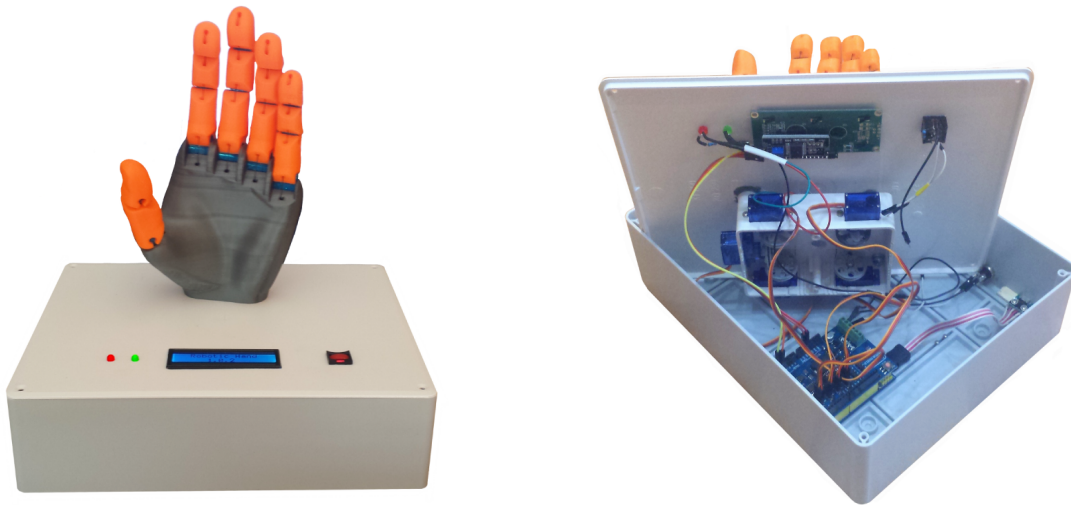


Robotic Hand 1.0.2



This bioinspired low self-cost technology based on Arduino board is mainly aimed at people with hearing problems. But it's application can be wider: it could be a massive help in studying the sign language. The program of the robot includes a library of sign language which allows the robot, controlled by micro servo motors placed inside the box, to reproduce words and even the whole phrases using a set of different finger movements.

The user enters the words he wants to display using a keyboard, which first leads to displaying the text on the LCD display and then to reproducing it by the hand itself. The robot works from autonomous power supply. The further project development includes connecting a Voice input module and elements of Artificial Intelligence based on replenishing database. This should help to amplify the application area of the device. The third stage supposes connecting the Robotic Hand to the Internet, which would allow to use Google stt/tts functions.

Supposing you are interested in our project, it would be a great pleasure for us to meet a sponsor who would support it's development and promotion.

You can contact us by e-mail: dmivit98@gmail.com

Main components used:

- 5xMicro Servo
- 2xLEDs
- LCD and i2c bridge
- 3D printed parts of the hand
- Arduino board
- DFplayer mini, micro SD
- 3Watt Speaker
- Connecting wires, resistors, buttons

