Prosthetic Arm

ABSTRACT

Continuous growth in industrialization and lack of awareness in safety parameters the cases of amputations are growing. The search of safer, simpler and automated prosthetic arms for managing upper limbs is expected. Continuous efforts have been made to design and develop prosthetic arms ranging from simple harness actuated to automated mechanisms with various control options. However due the cost constraints, the automated prosthetic arms are still out of the reach of needy people.

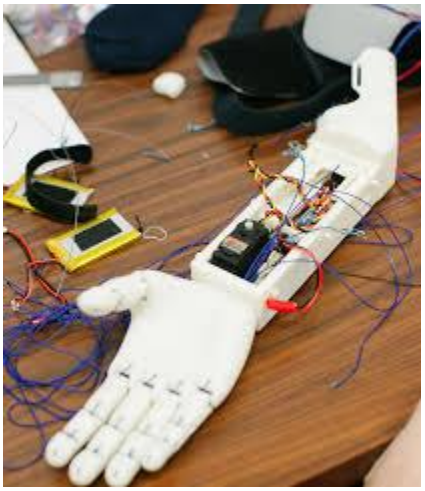
Working

Prosthetic arm will be made of 3d printed material and will be having human like fingers controlled with servo motor
Servo motors wll get driving signal from main controller
Main controller will get the input from user via eeg signal or any input devices
Arm might also contain some different sensors to know temprature or humidity of object ot be touched

Components

- Arduino Uno
- Bluetooth
- servo Motor
- 3d printed parts
- Potentiometer
- Other sensors(custom requirement)

Project image



Circuit Diagram

Circuit diagram changes with final model and sensors and modules used