

ABSTRACT

This project is based on the need of developing an electronic device that can translate finger gesture into text or speech in order to make the communication take place between the mute communities with the normal people. A data glove is used to convey the finger gesture of a mute person.

The data glove is normal rubber or cloth glove, fitted with flex sensors along the length of each finger. Mute people can use the glove to perform hand gesture and the same will be converted into speech so that normal people can understand the mute person expression.

This device contains a set of 5 flex sensors which give data as input resistance to the microcontroller according to the bending of flex sensors, this resistance is converted into speech, on the other side the person with normal abilities can easily listen to the converted message from the speaker or earphones through voice recording and playback device based on MP3 module.