Sign Language Interpreter Using Leap Motion Sensor

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Objective

Objective behind this project is to help hearing-impaired and verbally challenged people to communicate with other people. So this system will try to interpret the sign language into natural voice. so other people can understand what they want to say.

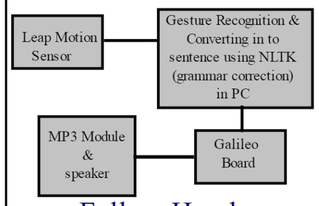
Introduction

Here we are using Leap Motion Sensor for the detection of gestures which will then be coverted into an audio format using Galileo Board and MP3 module and will be audible via a speaker or a headphone.

Components

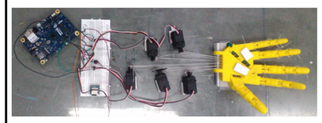
-Leap motion Sensor
-Galileo board
-MP3 Module

Flow of System

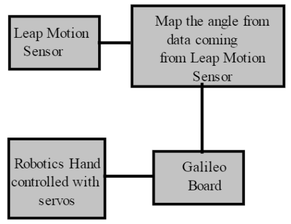


Follow Hand

A robotic hand which will imitate the gestures performed by a person's hand using the Leap Motion Sensor and Galileo Board



Flow of System



Future Plan

- To make the system more compact for ease of portability.
- Make a portable device in size comparable to a tablet.
- Make reverse system, Speech to Gesture using follow hand