Sign Language Gesture Vocalizer

Mr. Navinkumar Sir, Vaishali Waghmare, Ramabai Dhavan, Jyotiba Wagre

Gramin College of Engineering Vishnupuri, nanded, Maharashtra, India

Abstract*: There are about 70 million silent people in the world. There are kids that have autism that is not verbal. It is extremely difficult for people with speech impairments and normal people to communicate. Thus, the system is developing a glove-based gadget that will translate sign language (ASL) to speech. Not everyone is able to comprehend sign language. These sensors record the user's movements in real time. These sensors provide data, which is gathered by an Arduino Nano microcontroller and transmitted over Bluetooth to a PC. With the help of this prototype, silent people can now speak and learn multiple languages*

Keywords: gesture recognition, flex sensor

REFERENCES

[1]. "Bahasa isyarat", Wikipedia Org. [Online] Available: https://id.wikipedia.org/wiki/Bahasa_isyarat, retrieved 13-9-2018

[2]. Rishikanth C; Harini, S, Gautham R. Ramesh R. Vineeth V. "Low-Cost Intelligent Gesture Recognition Engine for Audio-Vocally Impaired Individuals", IEEE Global Humanitarian Technology Conference,2014

[3]. Pusdatin, "Buletin Jendela Data dan Informasi Kesehatan", Kementerian Kesehatan RI, Semester II, 2014

[4]. "Hand Gesture Recognition Using PCA" by Mandeep Kaur, Ahuja Dr. Amardeep Singh, UCSET (www.ijeset.net) July 2015 Vol 5, Issue 7,267-271

[5]. https://learn sparkfun.com/tutorials/accelerometer-basics

[6]. Embedded Based Hand Talk Assisting System for Dumb People on Android Platform by R. Balakrishnan, Santosh BK, Rahul H Shivkumar Sunil Anthony, 4th National Conference on Design Innovations for 3Cs" Compute, Communicate, Control"