



AIUB DSpace Publication Details

Title:	Electronic speaking system for speech impaired people: Speak up		
Author(s) Name:	Safayet Ahmed, Rafiqul Islam, Md Saniat Rahman Zishan, Mohammed Rabiul Hasan, Md Nahian Islam		
Contact Email(s):	saniat@aiub.edu		
Published Journal Name:	2015 International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)		
Type of Publication:	Conference		
Volume:	N/A	Issue	N/A
Publisher:	IEEE		
Publication Date:	29 October 2015		
ISSN:	978-1-4673-6676-2		
DOI:	https://doi.org/10.1109/ICEEICT.2015.7307401		
URL:	https://ieeexplore.ieee.org/abstract/document/7307401		
Other Related Info.:	Page 1-4		



AIUB DSpace Publication Details

Abstract:

Sign Language is the only way of communication for speech impaired people. But general people can't understand the sign language so it becomes difficult for a speech impaired person to communicate with them. In this project an electronic speaking system was developed to ease the communication process of speech impaired people. A glove was developed which consists of five flex sensors. When a gesture is made with the glove, the change in resistance of flex sensors fed into the Arduino Nano and specific prerecorded audio command for that gesture is played from SD card through speaker and the text command for that gesture is displayed on the LCD. There are four gestures that are designed for user input so that user can play his/her chosen audio commands using those gestures. This device not only helps a speech impaired person to communicate with a normal person via audio commands but also helps him/her to communicate with a hearing impaired person by displaying the text commands on the LCD.