ABSTRACT

Communication is one important factor in social life, for that we must be able to understand various kinds of communication such as Sign Communication or Sign Language. Especially in Indonesia which has a large-scale population with not a few persons with speech impairment. For this reason, a tool that can be a learning media for lay people who does not know the basics of the sign language alphabet will be created here.

This Final Project Research designs the identification of letters using one right hand that is connected to a device connected with a microcontroller and flex sensor. The sensor will read the hand movements that are formed based on the Indonesian Sign Language System Alphabet (SIBI). The results of the design results will be displayed on the LCD.

The results obtained during the testing of the tool stated that the tool can detect hand movements in accordance with the rules of the alphabet on SIBI by displaying the results of hand movements on a 16x2 LCD screen. With the percentage of success of 10 times testing of 5 people is more than 75%.

keywords: Flex sensor, SIBI, LCD, Sign Language