Handtalk Assistance System for Deaf & Dump people

In our day to day life most of the task we carry out involves speaking and hearing. The deaf and dumb people have difficulty in communicating with others who cannot understand sign language and misinterprets. Communications between deaf-mute and a standard person have invariably been a difficult task. We have designed a simple embedded system based device which facilitates individuals by means of a glove based mostly deaf-mute communication interpreter system. The glove is internally equipped with four flex sensors. For every specific gesture, the flex detector produces a proportional amendment in resistance and measures the orientation of hand. The process of those hand gestures is finished in controller. We have use flex sensor for getting the data from the deaf and dumb people using sign language and microcontroller ATmega328 for controlling all operations and APR 9600 voice chip for voice storage.LCD display and speaker are used as output device to convey the message to deaf and dumb people.