A
Project Report
On

"HAND TALK ASSISTIVE TECHNOLOGY FOR DEAF"

Submitted in partial fulfillment of the 8th semester bachelor of Engineering in Telecommunication Engineering of

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ABSTRACT

One of the many areas in which embedded systems show great promise is assistive technologies, which address the special needs of those with impairments.

Technology has always been of great help to the disabled and given them a helping hand to allow them to live a normal and healthy life like others. we have come up with a novel idea of a glove named Handtalk that will convert hand movements into text and allow the deaf to express themselves better.

Any device or process that assists a person with a disability to do something that would otherwise be difficult or impossible to accomplish is called Assistive technology (AT).

It consists of 8051 development board, on which a P89V51 RD2 is mounted whose pins are connected to display via patch chords. And an APLUS APR 9600 SINGLE CHIP VOICE RECORDING AND PLAYBACK DEVICE 60 duration, which connected to speaker. A 7805 voltage regulator used to regulate the voltage of 0v-12v to all the units it is connected internally.

FOR a deaf person, who is not able to listen anything. He can record his speech (expression) in the ENGLISH language using APR-9600 a single chip voice recording device, which is connected to speaker.