

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM, KARNATAKA



A
PROJECT REPORT
ON
“SIGN LANGUAGE COACH”

Submitted in partial fulfillment of the requirements for the Award of Bachelor of Engineering degree in Instrumentation Technology during the year 2011-12.

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ABSTRACT

In the 19th century, American Sign Language (ASL) evolved from a combination of French Sign Language and homemade signs from Martha's Vineyard and New England homes for deaf children.

This project is to design a useful and fully functional, real world product that efficiently translates the movements of fingers into American Sign Language. In this project basically we are converting the hand gestures shown in form of American Sign Language to the alphabet numeric for the deaf and dumb people who cannot hear and speak but can see the words on computer or LCD and easily understand it.

Deaf and dumb people have difficulty communicating with others who don't understand sign languages. It is very difficult task to imitate vibration in our throat that we can't actually hear and also linking them into series, ideas, phrases, or entire conversations. Sign Language Coach aims to reduce this barrier of communication.

ASL users convey critical information with their hands through the use of hand shapes, locations, movements, palm orientations and non manual. Grammatical signals (eyes, face, head, and shoulders) providing full Visual access to communication and language, ASL can convey subtle, Complex, and abstract thoughts. In short, ASL can communicate anything.

The English language has individual letters. Likewise, ASL and other signed languages consist of hand shapes. ASL is recognized by many organizations, and universities and colleges, including Gallaudet University, as an official language in its own right. It is a visual-spatial language best accessible for children (and adults) who cannot access Auditory languages.