

PROJECT-5 : Speaking Aid for Deaf and Paralyzed (Team Project)

We started working on this project in January'20 i.e. during our semester 4.

Problem:

Physically disabled people have a barrier to communication, and communication aids available are mostly not economic to them. People who are paralytic and those who have some speaking disability always face problems in communicating. Example: Hellen Keller, Stephen Hawking etc.

Solution:

To solve this problem we will be making a gesture sensing glove which will help them to communicate with other people.

As dumb people already have a sign language based on their gestures using which they communicate with each other, so we can note the gesture and convert it into text which will be transferred to a mobile/speaker via a Bluetooth / wireless module.

The Mobile phone app made by GVS Technology is available which will convert text to speech as it will receive the input. Thus the clear motive is to build a gesture sensing glove as an aid for dumb and paralysed, as our aim.

Hardware required:

- Arduino mega
- Flex sensor
- Resistors, capacitors and diode
- LED
- Mic and Speaker
- Battery and battery strip
- Recordable sound IC

Ideology Demonstration:



✚ Me and my team secured **3rd rank** among **20000 teams** participating, for presenting this project idea in the competition called “**Chunautee’21-Solutions for Divyangjan**” organized by J.C Bose University of Science and Technology, YMCA Faridabad.

Below is the link to my certificate for the same:

https://drive.google.com/file/d/1NLdFahInL_m2FDbiFE-wBYF4cmJeZ1H-/view?usp=sharing