

Project 4

Smart Gloves for Hand Gesture Recognition for the Military Purpose

Abstract

The project came into existence to help the effective communication in the battleground or secrete operation in the army, this project aims to lower the barrier in communication, it is based on the need of developing an electronic device that can translate sign language hand gesture into speech in order to make the communication take place between the mute condition or silent feature with the general hand gesture.

Wireless data gloves are used which is normal cloth driving gloves fitted with flex sensors along the length of each finger and the thumb. In silent condition soldier can use the gloves to performs hand gesture and it will be converted into speech and a Bluetooth device is used to receive the speech message information. By using this project, we can reduce the difficulties faced by the soldiers in the coordination for the effective communication.

Advantage

- Effective communication between two soldiers in the silent specification.
- Coordination become more effective and easier.
- Operation become optimistic and successive in the mute condition.
- Easy to transmit the data or message vary fast realistically.
- Versality and privacy can be maintained.
- Vary compact and portable produce pretty much good life span for sensor.

Disadvantage

- Sensor are too delicate and sensitive handling with care is most important.
- Wearing the gloves in the operation might be uncomfortable in some of the mission.
- Longer distance specification is a limitation.

Reference

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