## CSE - 316

Microprocessors, Microcontrollers, and Embedded Systems Sessional

Title: The Wonder Hand

#### Group Members:

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## Motivation

- \* Build a project that helps us learn the ins and outs of how microcontroller works with various sensors
- Something that has a positive effect on the real world.
- \* Be useful to a section of people who are helpless in carrying out their work and need help.
- Our project titled "The Wonder Hand" does such a job which may also be applicable in real-world situations.

### Description

- \* "The Wonder Hand" is a system to control household devices like, light, fan, alarm etc. via hand gestures for disabled and bedridden people.
- \* It is basically a glove worn in the hand of the patient. A microcontroller is embedded on the glove which in turn controls which device to turn on/off and transmits the state to another microcontroller.
- The second microcontroller then acts upon the direction it receives and operates on the devices.
- Specific gestures are given by the patient after wearing the wonder glove. Our microcontrollers work based upon those hand gestures.

### Microcontrollers & Sensors

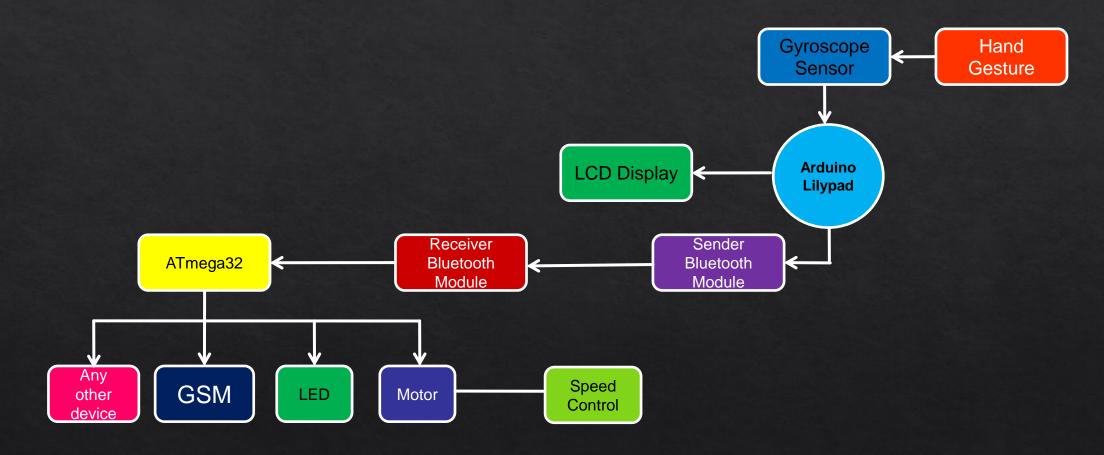
#### Sensors:

- ♦ Bluetooth Module
- ♦ Gyroscope Sensor
- ♦ GSM Module

#### Microcontrollers:

- Arduino Lilypad
- ♦ ATMega32

## Simple Workflow



# THANK YOU