

## Bus Control System

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The project idea is problem solution buses of generality (general transfer).

Some of accidents may be the driver doesn't pay attention for over number of passenger and over speed ;they may be cause loss of life for large number of innocent people, as well as significant financial losses .

### Passengers: ❖

The idea of passenger or increasing number of passengers came from many reasons including the spread of disease among the passengers of the bus they approached each other and have designed a system which is a passenger on account of passengers inside the bus through the sensor is placed on the door of the bus and consists of three cases:

1. If the load bus 23 passenger sends an alert to the driver that he has remained for only one passenger to complete the number on the same screen of the speed with which we have mentioned previously.
2. If the load bus 24 passenger sends an alert to the driver that the bus load completes.
3. If the load bus 25 passengers sends an alert to the driver that he has an increased number of passengers and then sends a violation of the existing system in the management of traffic each alert and take up to approximately 10 seconds away

Exchange crisis is a LCD, sensor PIC, and other pieces

## Speed:

The idea of the speed of many reasons, including accidents, came the idea of a speed which is a system in the event of violation of speed if the driver exceeded the speed limit and be one of the two cases:

1. When the speed close to the maximum speed allowed
2. When a matter beyond the violation of the system in the Traffic Department

First system to alert and send the violation and be on the bus

The second system to receive the violation and be present in the management of traffic

The hard ware for this system:

LCD, SENSOR, GPS.

## Path:

Came the idea for many reasons, including passengers Wrath because not disembarked them in the space provided in the same path.

Designed the system path and the violation consists of two situations:

- 1-If the inside track that appears on the screen (driver safety).
- 2-If the track sends out a violation of the existing system in the management of traffic.

Pieces needed:

GPS (speed, path), LCD and other pieces.