For more Project details visit:

http://www.projectsof8051.com/gps-tracker-for-blind-people-using-gsm-technology/

Code	Project Title
1862	GPS based Blind person tracker using GSM technology

Synopsis for
GPS based Blind person tracker
Using GSM technology

Introduction

Every alternate day we hear news about person missing. Many of these include blind person. Some of these people are never traced. However with the use of the advanced GPS blind person tracker system, family members can find blind person in few minutes.
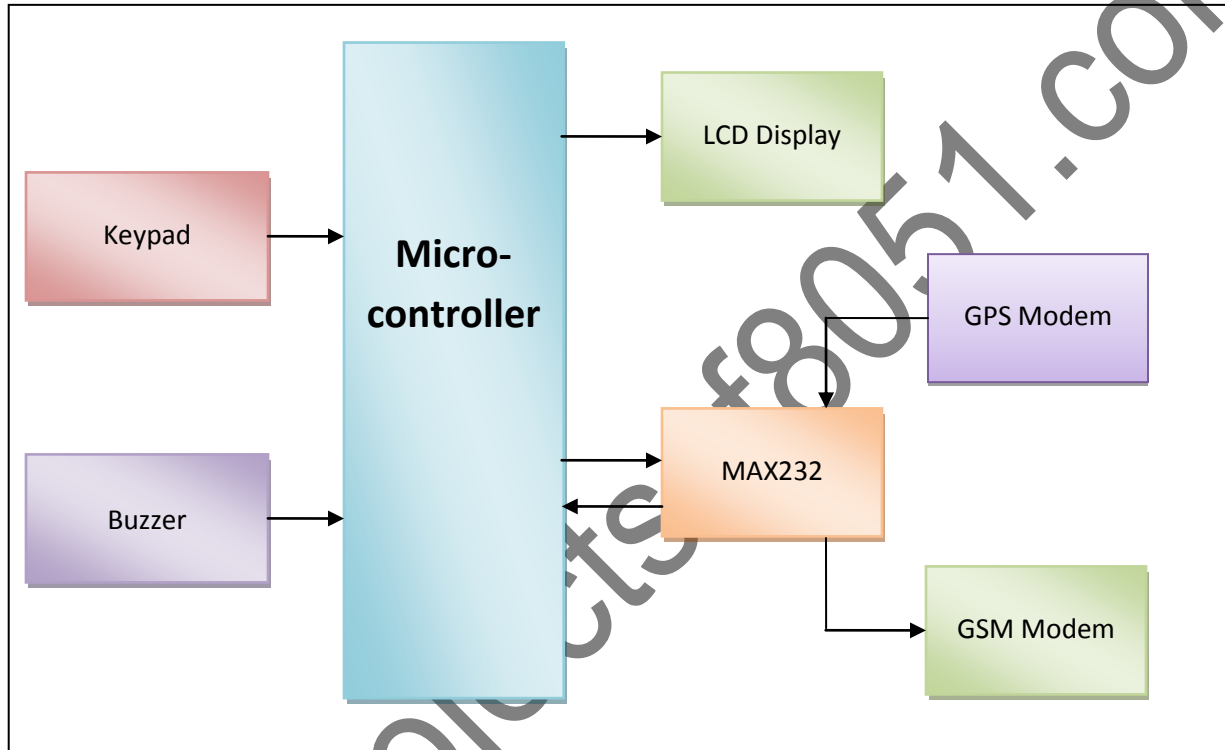
It is really difficult for blind person to move in this world. There are chances that they can get lost; in such cases it is really difficult for their family members to find them. Blind person has to carry this project in his/her bag.
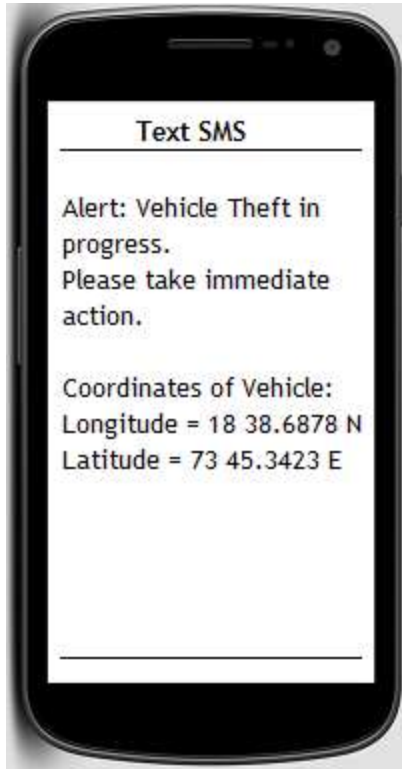
GPS based tracker for blind person project solves this problem. This project has GPS modem and GSM modem. This project sends SMS to the family members of the Blind person. This SMS contains the Longitude and Latitude of the person. This project also has a Keypad which has 4 keys. This keypad can be used to send emergency messages to the family members. 4 Keys has respective 4 emergency messages.

GPS modem continuously send data string to the microcontroller. This data contains various type of information. It includes Longitude Latitude of the place where project is currently situated. Thus microcontroller gets co-ordinates of the place. Then it sends SMS after periodic interval of time, for example after every 1 minute.

BLOCK DIAGRAM:

Text SMS

Alert: Vehicle Theft in progress.
Please take immediate action.

Coordinates of Vehicle:
Longitude = 18 38.6878 N
Latitude = 73 45.3423 E

Block Diagram Description:

1) Microcontroller: We have used 8051 series microcontroller, AT89s51. 8051 communicates with Keypad, LCD display, GPS modem and GSM modem.

2) LCD display: This is non-mandatory component of the circuit. However it is important part while developing the project.

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3) GPS modem: It send out data on serial port. This data contains various information including Longitude and Latitude of the vehicle's current location.

4) GSM Modem: Microcontroller sends AT commands to the GSM modem. Then GSM modem sends SMS.

5) Keypad: It is used to send emergency message to the family member.

ADVANTAGES:

1) This project is very easy to install and easy to use.

2) Person can be immediately tracked.

APPLICATIONS:

1) This project can be used for Blind person.

2) This project can also be used for tracking senior citizens, elderly person in our home.

Future development

1) We can add vehicle obstacle sensor.