



"Embedding thoughts into Technology"

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Employee Tracker device using GSM/GPS

Client:

US based company.

Requirement:

To design and develop a handheld GSM/GPS module to monitor the location and task status of an employee, using GPRS technology. The data is transmitted to a remote server (PC) where it is processed for monitoring using 'Google' maps.

Solution:

The system is based on an 8-bit PIC18F6722 microcontroller. The controller interfaces with the GSM and GPS modules serially using independent UARTs. A 16x2 LCD and 16-keys keyboard allows the user to edit settings/task parameters as well as view the pending tasks sent by remote server. The system sends the updated task and location to the server every 5 minutes.

Tools/Platforms:

- » PIC18F6722
- » Siemens GSM MC55 Module
- » FALCOM JP13 GPS Module
- » Microchip C18 V3.12
- » Microchip MPLAB ICD2
- » MPLAB IDE v7.62