

## Firmware Developer

**Kiran Hatti.**

**Email: kiran\_hatti@yahoo.com**

**Kiran.hatti2009@gmail.com**

**Mob: 9916949376**

---

### Career Objective

Quest to work in a challenging environment that allows me to expand my horizons in the field of Testing, software and hardware development and brings me in contact with the latest technologies, and dynamically work towards success and growth of the organization and serve as a profitable asset.

---

### Profile

- Embedded engineer with 3 Year's of experience in Firmware development, Manual Testing and Hardware designing skills.
- Worked on different roles like coding, configuration, validation, hardware designing & manual testing.
- Excellent interpersonal communication, presentation, problem solving and debugging skills.

---

### Skills Summary

- 2 Years 6 months experience in Embedded software development.
- 6 months experience in technical support in field and also on telecon for INCOIS and NCDEX projects.
- Programming Experience in 8bit and 16bit Microcontroller's applications.
- Programming Experience in Embedded C.
- Experience in various modules of bus protocols I2C, SPI, USB and RS232/RS485.
- Programming Experience in wireless zigbee module communication.
- Circuit design experience in GPS receiver, GPRS modem, Level converters and DC to DC power supplies.
- Circuit design experience for 8/16-bit microcontroller and corresponding peripheral design using OrCad 16.5 version.
- Understanding the microcontroller architecture, experience-using tools such as debuggers, device programmer, and Hardware/ software debug experience.
- Knowledge in hardware components and analyzing the schematics.
- Familiar with use of operating system: Windows.

---

### Educational Qualification

Course	Mark	Institution	Year
BE Electronics & Communication	60 %	KLECET,Belgaum.	2009
Diploma Electronics and	69.5 %	S.J.P.N Trust's Polytechnic	2006

## Firmware Developer

Communication		Nidasoshi.	
Matriculation	71.36 %	Y.V.S High School, Yamakanamardi.	2003

### Professional experience

- Working as DESIGN ENGINEER at **WEBSTAR SOFTWARE PRIVATE LIMITED** in Embedded Solutions for last **3 yr** (May 2010 –till date).

### Project Profile

- Project 1** : **Production Monitoring Display.**  
Client : Sansera Engineering, Bangalore.  
Role : Hardware and Software Development.  
Technology : Ethernet interface, MP LAB Tool for PIC.  
Controller : PIC24HJ256GP210.  
Compiler : MPLAB C30 Compiler.  
Description : This project is developed to display the Production Target, Actual, Machine Name and Efficiency. It will take production data from the server computer through Ethernet. Internally in the display unit converter, which converts Ethernet to serial. The continuous data from server will go to the controller. We update the messages from the EEPROM to the display. The messages are stored in the EEPROM IC's.
- Project 2** : **GPS Master/Slave Clock.**  
Client : Indian Railways.  
Role : Software Modification.  
Technology : GPS, MP LAB Tool for PIC, RS485, RS232 and Zigbee modules.  
Controller : PIC24HJ256GP210.  
Compiler : MPLAB C30 Compiler.  
Description : This project provides the accurate satellites time (GMT) for railways using GPS Technologies.
- Project 3** : **Dual Signal Lamp Driver for Traffic Lights.**  
Client : Perceptron, Goa.  
Role : Hardware Design and Related software development.  
Technology : USB.  
Controller : 18F6722.  
Compiler : HI-TECH PICC.  
Description : This product is mainly developed for traffic lights. This product will take power supply through computer USB. The user or traffic police will send a command from computer to unit. The command consists of particular lamp to switch ON or OFF. Inside micro controller will receive a command and it will process it and particular relay will be driven to switch ON or Switch OFF. In the case where computer is not available, the user can manually switch ON and Switch OFF the lights by pressing push Button.

## Firmware Developer

<b>Project 4</b>	:	<b>Weather Data Monitoring LED Display.</b>
Client	:	SUTRON.
Role	:	Hardware and Software Development of Display unit.
Technology	:	MP LAB Tool for PIC, RS232, OrCad, .
Controller	:	PIC24HJ256GP210.
Compiler	:	MPLAB C30 Compiler.
Description	:	This project is developed to display weather data being sent by the intelligent GPRS modem through RS232 interface. 16-bit pic microcontroller has been used. The Weather data from RS232 port (DB 9 Connector) will be received by the UART of the microcontroller and it will be stored in EEPROM IC. The I2C serial interface protocol has used to read the data and write in to EEPROM. I will read the serial data from the EEPROM one by one and will send to the display.
<b>Project 5</b>	:	<b>Interfacing box for Tappet thickness measurement unit.</b>
Client	:	General Motors, Pune.
Role	:	Hardware design and Software development.
Technology	:	MP LAB Tool for PIC, RS232 and USB modules.
Controller	:	PIC18F452.
Compiler	:	HI-TECH PICC.
Description	:	In this project we are using curtain sensor, pressure sensors, field inputs like switches and relays. Whenever start button is pressed, the upper and lower cylinders will move along with probes towards the tappet tray. After that probe relay will be switched ON for taking measurements. If the measured data is equal to master data then the cycle complete LED will get ON. Some safety features have been included.

### Personal Details

<b>Name</b>	:	Kiran Hatti.
<b>Father's Name</b>	:	Jayant.
<b>Date of Birth</b>	:	12 OCT 1987.
<b>Nationality</b>	:	Indian
<b>Sex</b>	:	Male
<b>Marital status</b>	:	Single
<b>Hobbies</b>	:	Listening to Music, Watching & playing Cricket
<b>Language Known</b>	:	English, Hindi, Kannada.
<b>Passport Number</b>	:	K3211010.