

**Tag Line** - Low Cost, Simple and Reliable Embedded Designs

**About me** - An electronic hobbyist who has converted ideas to real sellable and profitable products.

### **Summary**

I can take care of following

1. Only software on a ready hardware design provided by the customer
2. making prototype and show a proof of concept design in less than a week.
3. Deliver complete hardware and software for a product from start to finish

We already have a large ready to use, tested, field proven modules of hardware and software and over 200 different PCB design with various hardware combinations. Making a new design usually takes very less time as around 80% design is already done in less then three days using existing modules.

### **Skills**

Protocols - TCP/IP, GSM, RS485,RS232, RC5 and NEC6121 for IR Remotes, Zigbee,Pelco, Visca(Sony)

Micro Controllers - 8 bit micro controllers

Interface - I2C, SPI, 4 bit LCD,

Input/Output - PS/2 Keyboard, OSD, LCD, Numeric Display, Standard I/O

PCB and Circuit Designing - 2 layer only, Orcad and Protel

Compilers - Codewarrior, Metrowerks, Raisonance, Keil, MPLAB

### **Programming Experience**

I have provided software/programmed micro controllers to following customers/product segments. Only a very limited hardware support was provided.

Customer	Product
Reiz Electro Controls Pvt Ltd, Gurgaon	DMX512 Slave controllers
Sparsh SecuriTech , Noida	CCTV Swithchers Auto Dialler Video/Audio Door Phone
Safety First Engineer, Delhi	Auto Dialler 4 zone security alarms
Amitec Limited, Sahibabad	RF Educational Instruments
SGS Tekniks Pvt Ltd, Gurgaon	Aqua Guard Water Filter
Videocon Ltd	Tape Recorder
Calcom Ltd	B&W TV

## **Manufacturing Experience**

I also provide following products to various customers. These are complete assembled, tested PCBs read to fit in final products. Complete hardware design including PCB, Circuit and protection was done by me

<b>Customer</b>	<b>Product</b>
UT Ltd, Sahibabad	Lift Controllers, Rolling FPI Voice announcement boards
Luminelle Solar Technolog Ltd, Noida	Traffic Controllers Count Down Timers
Associated Appliance Limited	Kitchen Chimney Controllers

## **Keywords**

1. Microcontrollers
2. JSS
3. Freescale
4. NXP
5. Motorola
6. Philips
7. Noida
8. EFY
9. Embedded
10. Training

## **About me**

I have around 3 decades of experience of working with electronics and micro controllers and started learning Intel 8035 in year 1979. I programmed Intel 8085 using Assembly and PL/M language.

Since then, I have worked on new range of 8 bit micro controllers from Motorola, Philips, ST Micro, Zilog, Microchip, Renesas in Assembly and C language.

I am an electronic hobbyists and designer and believe in continuous learning and training. In the last 10 years, I have designed lot of designs/products which are commercially successful.

My strength has been to convert an idea into real shape and then give that design to various manufacturers who in turn take care of production, marketing and sales. I control the programmed micro controllers and get my profit from its sale. Programmed micro controllers can not be copied so my profits remain assured.

I believe in sharing and have already made my five most successful commercial designs open. I have published complete circuit, details and software in an electronic magazine EFY. Details are also on my website [www.joy-n-freedom.com/oss.html](http://www.joy-n-freedom.com/oss.html)

## **Payments terms**

33% upfront

33% on project completion

33% on delivery

We can work on a one time design charges, per piece royalty or provide completely assembled, tested and ready to use boards with upto 10 years guarantee.

## **Detailed Service Descriptions**

We have ready hardware or software modules for following

Micro Controller - NXP, Freescale, Microchip, ST Micro, Renesas

EEPROM - Serial I2C based(24Cxx), Serial SPI based(93Cxx)

RTC - NXP PCF8563

Audio Controllers - ST7315, PT2315, other I2C based audio controllers

On Screen Display - Samsung KS5514B

Alphanumeric LCD - HD44780 or equivalent 4bit/8bit interface

Numeric Display - Direct MCU drive, PTC6131 ...

IR Remote - RC5, NEC6121 protocols

RF Remote - 433 MHz, Zigbee

Audio/Video Switching - 4051, ST6415, ST6416 ...

Interface Protocols - RS485, TCP I/P, GSM, Pelco, Visca,DMX512

## **Product Segments**

Security Systems - CCTV, Zone alarm panels

Traffic Light Controllers - Complete solutions for electronics

Elevator Controllers - Complete solution for electronics

LED lighting - DMX512 Slave, Standalone RGB lighting

Home Automation - GSM/TCP/IP controlled devices

We have over 200 ready, tested and field proven modules. They can be clubbed to make a working prototype in less than 3 days as for most of the requirements almost 80% design is ready in 6 hours using ready, tested and field proven modules.

## **My current focus - Solar Powered High Energy Efficiency Products**

- Traffic Lights
- Timer with power saving times schedule
- High energy efficiency solar chargers

### References from top three customers

<b>Customer</b>	UT Limited	Luminelle Solar Technology Ltd	Samriddhi Automation Pvt Ltd
<b>Contact Person</b>	Vivek Sanghi	Rajeev Agarwal	Sanjeev Sehgal
<b>Position</b>	Vice President	Director (Finance)	CEO
<b>Project</b>	Lift Electronics	Traffic Controller	Security Systems
<b>Time Period</b>	2004 onwards	2007 onwards	2002 - 2007
<b>Amount</b>	USD 50,000/annum	USD 75,000/annum	USD 25,000/annum

### References (others)

<b>Institution</b>	JSS Academy of Technical Education	Electronics For You	Business Community Foundation
<b>Category</b>			
<b>Contact Person</b>	Mr R. Raghunandan	Mr Ramesh Chopra	Ms Richa Tyagi
<b>Position</b>	CEO, ITBI	Managing Editor	Co-ordinator
<b>Relationship</b>	I spent three years in ITBI from 2003 to 2006	Five articles have been published in EFY from July 1997 till Oct 2006	Participated in BCF Ability Mela at Delhi and Allahabad

### Study

- Higher Secondary(11th) with Science, Maths, Engineering Drawing in 1976 from Janakpuri, New Delhi
- 3 years Diploma in Electronics and Electrical Communication in 1979 from Pusa Polytechnic, New Delhi

### Job

- July 1979 - March 1990 DCM Data Products (India's first computer manufacturing company) as Production Engineer
- April 1990 - March 1991 Pertech Computers Limited, New Delhi as Manager CE Workshop.
- April 1991 - March 1992 PC Workshop, New Delhi(Computer repairing) as partner
- April 1992 - June 1995 Intecon India Limited, Noida as Manager-R&D
- July 1995 - March 1999 Freelancing, Designing
- April 1999 - April 2003 Small time business as GVC Systems
- May 2003-March 2006 GVC Systems + JSSATE IT Incubator
- **April 2006- onwards GVC Systems Pvt Ltd, Roorkee, Delhi and Noida**

### **My favorite movies**

- Satyakam - Dharmender, Sharmila Tagore and Sanjeev Kumar
- Anand - Amitabh Bachan, Rajesh Khanna
- Munna Bhai MBBS - Sanjay Dutt, Gracy Singh
- Lage raho Munna Bhai - Sanjay Dutt,
- Chak De India - Shahrukh Khan
- Sujata - Nutan, Sunil Dutt
- Anita - Manoj Kumar, Sadhna
- Rangeela - Urmila, Amir Khan, Jackie
- Kamsutra - Rekha
- Utsav - Shekhar Suman, Rekha

### **My interests**

- Reading Magazines - Sarita, Womens'era, Debonair, Playboy, Readers Digest
- Books - I am Okay, You are Okay, Born to win, Games People Play
- Watching - Erotica, Movies on DVD/TV
- Sharing about my life via blogs, emails, on phone and when ever I meet any one

### **My wish list for April 2008**

#### **Landmark**

- Get candidated in ILP April 2008 by second weekend
- Be a coach in next SELP (after Nov 08)

#### **Personal Fun/Enjoyment**

- Have 10 times money in my bank account in next six months, buy a pent house, fly first class in Kingfisher, buy iPhone.
- Have a girl friend, go on a date, Visit elevate once a month.

#### **Family**

- Go on vacations / trek to Valley of Flower or some where in Uttranchal hills.
- Live as to Keep my wife/daughter happy.

#### **Project Joy-n-Freedom**

- Spend five hours every week to train slum students at Begumpur/Some other place
- Create two projects for physically disabled persons.
- Invite two persons per month in project Joy-n-Freedom, update website, participate in exhibitions.

#### **Business**

- Be a major player in Solar and Traffic light segment, Sign up with one new customer every month, Find a team leader for Delhi office, Start Mumbai, Jullandhar and Yamuna Nagar office. Earn three times than last year.

website	username	password	email
elance.com	vinay3065	gvc3065	<a href="mailto:vinay@gvc.in">vinay@gvc.in</a>
freelanceindia.com	vinay3065	geeta123	<a href="mailto:vinay@gvc.in">vinay@gvc.in</a>
techtribe.com	<a href="mailto:vinay@gvc.in">vinay@gvc.in</a>	gvc3065	<a href="mailto:vinay@gvc.in">vinay@gvc.in</a>