

Personal

Name: Srinivasulu Karasala
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Education

M.Tech (Communication Systems), IIT Madras, 1987
B.Tech (ECE), S.V.U College of Engineering, Tirupati, AP, 1985

Summary of Professional Skills and Expertise

I preferred to remain as programmer/designer/architect throughout my career. Nearly 35 years of experience in the following areas:

Embedded Systems and IOT

Radar and Locomotive control & monitor systems, Networking devices, IOT devices

Embedded Hardware

x86, ARM7, ARM9, ARM Cortex M and A series, Xtensa and RiscV based boards

RTOS

FreeRTOS, ThreadX, VxWorks, Embedded Linux

Network Protocols

TCP/IP, PPP, Bluetooth and BLE

Drivers and Bus protocol stacks

Ethernet, WiFi, USB, SDIO, SPI, I2C, CAN

Career Profile

Consultant for embedded product development (Jan 2013 – till date)

As an independent consultant providing services for the following companies in the area of product architecture, design and development.

Sirveen Control Systems Pvt. Ltd

- Responsible for the firmware design and architecture of various products developed by Sirveen for Indian Railways

Packetpath Technologies Pvt. Ltd

- For this IOT consulting company, I am responsible for the development of embedded and IOT products for its clients like Logitech, Modular bionics, Turtle beach, June life (Juneoven) and Molekule,

DEPIK Technologies Pvt. Ltd (Jan 2002 – Dec 2012)

Started my own company DEPIK Technologies, to offer high quality training and consulting services in the area of Embedded Systems, Networking and Linux.

Corporate training conducted for Lucent, Ericsson, Adaptec, Analog Devices, Nokia, ESN Technologies, Invensys and Vedams Software in VxWorks, Embedded Linux, Device drivers and TCP/IP stack.

System software (Device drivers and Linux Kernel modules) was developed for Analog Devices, Redpine Signals Inc, Qualcomm and Moschip Semiconductor companies.

Developed *dpKernel* real-time operating system, *dpBoot* Debug Monitor software for x86 and ARM architectures.

Intoto Software (I) Pvt Ltd, Secunderabad (April 1997 – Dec 2001) as Dy.GM (Technical)

Responsible for Bluetooth host stack development and VMOA stack (Voice and Multimedia over ATM) development. Also managed porting of Intoto connectivity solutions (PCMCIA, IEEE 1394 and USB stacks) and Network solutions (routers with NAT, Firewall) to various client platforms. Typically, client platforms will have different hardwares (x86, PowerPC, ARM and MIPS) and different RTOS (VxWorks, Nucleus, pSOS, embedded Linux).

Responsible for the development of following protocol stacks:

- TCP/IP Stack for router solution
- IEEE 1394 Stack, SBP-2, IP Over 1394
- USB host protocol stack and driver

Responsible for the design of Embedded Systems and Networking course for Rendezvous Onchip's training Institute. Also taught Advanced C and Embedded systems for first few batches at this institute. Corporate training was conducted for WIPRO and CMC by designing the course to their specific requirements.

WIPRO Systems, Bangalore, USA, Hyderabad (Mar 1993 - Mar 1997) as Consultant

Through WIPRO worked for GE Transportation Systems (GETS), Erie, USA for more than 2 years. Here mainly responsible for the development and Maintenance of GE Locomotive control system software. This software runs on i960 based hardware and uses iRMK RTOS. This hardware is connected to various microprocessor-based subsystems of locomotive. This software controls and monitors these subsystems. It also provides user interface to the locomotive drivers through 2 or 3 LCD Displays.

Also handled embedded system projects for various Japanese and US clients from Hyderabad Wipro office. Visited Japan twice to study the project requirements for the client Toshiba.

Electronics and Radar Development Establishment (LRDE - DRDO LAB), Bangalore
(Jan 1988 - Feb 1993) as Scientist C

Responsible for the development of following at LRDE:

- Radar data processing software
- Radar control software.
- System debug monitor for multibus-II Single Board Computers (SBC)
- Multi tasking kernel for 80186 based SBC

Used Intel Multibus II based 80286 and 80386 boards in the Radar. iRMK, iRMX RTOSes and Intel Development tools are used.