AREA OF STRENGTH

- Embedded Software
- Embedded C
- Linux Kernel Development
- Linux Char, Network and Block drivers
- Linux network programming, multi-threading, and application programming
- ♦ Linux Kernel & User Space API
- ♦ SAN Network Environment.
- ♦ TCP/IP socket programming
- ♦ Programming Multi core SoCs
- ♦ I2C, SPI, GPIO, Serial Ports
- Windows NDIS driver
- Shared memory, Memory controllers, Interrupts & DMA
- ◆ LTE NAS, RRC Layer
- ♦ Board Bring-up
- Protocol development
- Telecom and Embedded product development
- ♦ GDB Debugging
- ♦ RTOS
- Shell, Lua Scripting development
- Sparx systems enterprise architecture (UML design)
- Requirements Analysis

PROFILE HIGHLIGHTS

- ➤ A highly motivated and committed Embedded Software, Linux kernel, Device driver & Protocol Developer with 8 years of experience.
- Good understanding on embedded aspects of C programming.
- ➤ Excellent in C/C++ Programming and debugging.
- ➤ Excellent working experience in Linux kernel environment.
- ➤ Good working knowledge on Linux Character, Network and Block drivers.
- ➤ Good understanding of standards based wireless and wired product development.
- ➤ Involved in design, development and testing of a SAN network based multipath and path failover Linux driver.
- Designed and developed security protocol (IPSec, IKEv2) on Linux Network stack.
- > U-boot porting for a TI SoC based custom hardware platform.
- Involved in design, development and porting of LTE on RISC SoC based Network driver architecture on Linux.
- Proficiency in working with multi-threaded programs and sockets in windows and Linux.
- ➤ Had working experience on debugging with Trace32 (Simulator mode).
- ➤ Worked in Windows driver team for NDIS 5.1 network driver for security protocol and C++ based windows GUI for the same product.
- ➤ Good understanding in automobile infotainment systems.
- > Embedded product development life cycle.

Technical Skills:

Programming / Scripting Language	C, C++, Shell Scripting, Python, Lua
OS / RTOS	Linux: Kernel Internals, Networking, multi-threading, Socket Programming, Device driver development Windows: NDIS Driver, Socket Programming, GUI development. RTOS: QNX broad bring up, BSP Android: Kernel Internals.
Technology/Domain/Protocol	LTE, IPSec, IKEv2, Ethernet MAC programming, Telecom, Embedded development, IPV4, TCP/IP, Infotainment systems.
Development Environment / Tools	Conversant with Linux and windows OS-based development environment. IDE: cscope, kscope, eclipse based IDE, VC++ WinDDK, Git, Perforce, Clear Case, SVN, RTC
Debugger	GDB, KGDB, crash, Kdump, DbgView, windbg,Trace32
S/W Engineering Methodologies	Agile Development, Waterfall
Others	Wireshark, TCP dump, Iperf, In-Circuit emulators, Sparx UML diagram

Professional Experience:

Internet based (IoT) Smart Security Device

- Language, Tools & Environment: C, GDB, Arduino IDE, Atollic TrueSTUDIO
- Platform: EVM for Espressif's ESP8266 SoC, STM32F429I SoC, Linux, FreeRTOS
- **Client:** HiTech Info Group

Board support package (VP4 BSP) development for TI's DRA74x Jacinto 6

- Language, Tools & Environment: C, TI's code composer studio 6.1, GNU GCC, QNX, QNX Device drivers
- **Platform:** DRA74x Jacinto 6
- Client: Panasonic Automotive Systems

Platform software development for Automotive Infotainment system (VP4)

- Language, Tools & Environment: C, C++, GNU GCC, QNX, Sparx systems enterprise, Eclipse (RTC), Lua
- Platform: QNX Development environment, DRA74x SoC.
- Client: Panasonic Automotive System.

Platform software development for Jupiter VSAT ER5 terminal

- Language, Tools & Environment: C, GDB, GNU GCC, Linux compilation Environment, Linux Device drivers.
- Platform: Linux Network stack, Linux Kernel 3.x
- Client: Hughes Network Systems

Multipath and load blanching on SAN Network (Power Path)

- Language, Tools & Environment: C, RHEL (5,6,7), SLES (11,12), Oracle UEK Linux, Crash, GDB
- **Platform:** Linux kernel 3.x, CLARiiON, Symmertrix, VNX, VPLEX.
- Client: EMC Corporation

Porting Android (Jelly Bean) on TI's OMAP4460

- Language, Tools & Environment: C, GDB, Linux kernel development environment.
- Platform: EVM for TI's OMAP4460 SoC, Android (Jelly Bean), Linux Kernel 3.0.31
- Client: SASKEN communication Technologies

BSP development for Samsung Galaxy phones (QCBSP 2011)

- Language, Tools & Environment: C, Android, Linux Kernel, Trace32, GDB, Perforce.
- Platform: Qualcomm Snapdragon APQ8060, Android GB, Android JB
- Client: SAMSUNG

3GPP LTE UE Prototype Linux Driver

- Language, Tools & Environment: C, Linux network stack, GDB, GNU GCC, Linux development environment.
- Platform: EVM for TI's OMAP3530, Ethernet DM9000, Ethernet Realtek HW.
- Client: SAI Technology

U-boot and Android porting on Devkit 8000

- Language, Tools & Environment: C, GNU GCC, Linux development environment.
- Platform: EVM for TI's OMAP3530, Ethernet DM9000
- Client: SAI Technology

Windows GUI interface for VPN Application

- Language, Tools & Environment: C, C++, NSIS, MS Visual Studio, GDB
- Platform: Windows XP
- Client: SAI Technology

Windows Service and Protocol development

- Language, Tools & Environment: C, C++, MS Visual Studio, GDB, GNU GCC.
- Platform: Windows XP, Linux
- Client: SAI Technology

IPSec Driver development for VPN

- Language, Tools & Environment: C, WinDDK, GDB, GNU GCC, KGDB, WinDBG, DbgView, NDIS 5.1
- Platform: Realtek Hardware, Linux kernel 2.6, Windows XP
- Client: SAI Technology

Educational Qualifications:

2005-2008 Master of Computer Applications, Anna University

2002-2005 Bachelor of Science, Bharathiar University

➤ Major Subject - **Electronics**; Ancillaries - Computer & Mathematics