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# Ravi Kant Sharma

Member – Technical Staff

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## • EDUCATION

July, 2007 to  
May, 2010

**Birla Institute of Technology, Ranchi**  
**Master of Computer Application**

## • EXPERIENCE

Oct, 2010 to  
June 2012

**Anveshan Telecom**  
**Member – Technical Staff**

Freescall MSC8144, SmartCore 3400 series,  
SmartDSP OS

- Responsible for Design and Development of ITU-T Specifications for Digital Circuit Multiplication Equipment.
- Wrote various Application and Communication Stacks like forward error correction, HDLC, proprietary reliable UDP with packet retransmission, fragmentation and reassembly, TCP/IP Stack maintenance, robust communication protocol for In-Band Management over E1 line, TFTP for Software Upgrade, configuration save and restore, new SNMP v2c features.
- Wrote various Signaling protocols from ITU-T Q Series, Signaling System Region 1, SSR2, SS5 and Call Detail Record (CDR) Generation from SS7 ISUP.

May, 2010 to  
Oct, 2010

**Aricent Technologies**  
**Software Engineer - Development**

x86 Intel, ThreadX

- Development of Data link layer (L2) and Network layer (L3) for G.hn next generation wired Home networking protocol.
- Responsible for Development of Medium Access Control (MAC) Sub layer, Medium Access Protocol (MAP) building and scheduling, Multicast Routing.
- Wrote gTerm, a Command Line Ethernet based Interface (CLI) to debug device (based on G.hn protocol) and Logging Framework .

## • PROFESSIONAL PROFILE

Embedded Systems Programmer with strong technical and analytical skills. Looking for challenging projects in embedded systems where I can utilize my expertise to develop next gen Network and Embedded devices in a highly talented, innovative and vibrant environment.

## • SKILLS

### Platforms

Freescall MSC8144, Intel x86

### Operating Systems

Linux, MS Windows, ThreadX, SmartDSP OS, uC/OS-II

### Programming Languages & Tools

C, C++, Assembly, Scheme, Tcl, GCC, GDB, GNU Binutils, Valgrind, lint, MATLAB, Git