**CURRICULUM VITAE**

S L NARASIMHA REDDY
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**Career Objectives**
To associate with a software organization which provides a good working environment and to take the
challenges in the process of making things efficient and innovative.

**Professional Experience**
I workedpreviously as a System Software Engineer for about three years. I got good working
experience in the areas of design, algorithms, coding, unit testing, integration, sanity testing,
etc. I made use of various development tools for quicker and effective solutions. I also learned
various testing scenarios of gateways, using different testing tools.

**Previous Employers:**

**Synfosys (P) Ltd., Hyderabad**(**2009**)

Network Security and Vulnerability Assesment.

**Embedded Infotech (P) Ltd.**, #9, Happy Valley, Road No.10, Banjara Hills, Hyderabad -34. (**2008**)
A subsidiary( Research and Development center) of TeamF1 Inc., USA.
Provide innovative software solutions to Gateways with features like DMZ, nat, firewalls,
VPN, IPSec., etc. in the networking domain.
Clients
Linksys(A division of Cisco), Netgear, Metalink, Kentrox, Edgewater, etc.

**Ceeyes Software Technologies (P) Ltd.**, Ameerpet, Hyderabad.(**2007)**
Provide the software for Metropolitan Ethernet switch for different platforms like.

Technical Skills
C, Data Structures, Network Programming, Linux Shell Programming,
Shell Scripting, sqlite3, etc.

Operating Systems
Linux, VxWorks(RTOS), and Windows

Development Tools
GNU gcc, Wind River, GNU Debugger, Coverity prevent, NFS, TFTP, etc.

Utilities
Make, Shell script and Archive Utilities

Soft Skills
Good communication skills, strong demonstrating abilities, team work, etc.

Project 1 **Linksys Gateway with firewall and IPSec**
The Linksys gateway provides basic functionalities like network address translation, classical
routing, logging, packet capturing, providing demilitarized zone, vendor class identification, and
some security features like firewall, blocking TCP/UDP flood, stealth mode, Intrusion Detection
System(IDS), IPSec., etc. Our team provided the back-end code and management frame work for this
Gateway. This is a new platform where we have used Sqlite3 data base, Lua (A light weight
Configuration language, being an interface b/w GUI or CLI and data base) code which uses intern
uses a Lua library written in C. Adapted install/uninstall script to install or uninstall various
modules/components. Also used SVN repository in association with trac for software configuration
management.
Target Features Target CPU : mips64
Target OS : Linux
Target tool : mips64-octeon-linux-gnu-gcc
Ram : 64 MB
My role
I handled the components like DHCP, LAN, WAN, NIMF, and routing. Specifically,
handling the management code and backend code(if needed), providing the features required by
the clients, debugging the code to fix the bugs reported by the QA/clients, unit testing the
components, submitting the reports on the functionality of new features added along with the
test-case document, etc.

Project 2 **Metalink Gateway**
The Metalink gateway provides basic functionalities like network address translation, classical
routing, logging, packet capturing, providing demilitarized zone, vendor class identification, and
some security features like firewall, blocking TCP/UDP flood, stealth mode, Intrusion Detection
System(IDS). Our team provided the back end code and management frame work for this Gateway. This
is a new platform where we have used Sqlite3 data base, Lua (A light weight Configuration language,
being an interface b/w GUI or CLI and data base) code which uses intern a Lua library written in C.
Adapted install/uninstall script to install or uninstall various modules/components. Also used SVN
repository in association with trac for software configuration management.
Target Features Target CPU: arm
Target OS : Linux
Target tool : arm-linux-gnu-gcc
Ram : 32 MB
My role
I handled the components like DHCP, LAN, WAN, NIMF, and routing. Specifically,
handling the management code and backend code(if needed), providing the features required by
the clients, debugging the code to fix the bugs reported by the QA/clients, unit testing the
components, submitting the reports on the functionality of new features added along with the
test-case document, etc.

Project 3 **Netgear router with firewall and VPN**The Netgear gateway provides basic functionalities like network address translation, classical
routing, logging, packet capturing, providing demilitarized zone, vendor class identification, and
some security features like firewall, blocking TCP/UDP flood, stealth mode, Intrusion Detection
System(IDS), IPSec., etc. This has been a older platform where we used linked lists instead of
Sqlite3 database , lua code was not used, and install/uninstall scripts were also not there. The
CVS was used here for source code control and management.
My role
Unit testing the components like firewall, VPN, routing, etc., reporting the bugs (SPRs) through
bugzilla / dts and writing / editing the test documents. I made use of various testing tools, to
validate the performance of various components, like ethereal, wireshark, tcpdump, syslog, iperf,
netperf, hping, sping, cons, etc.

Project 4 **VoIP**
Voice over Internet Protocol(VoIP) is implemented by integrating both Session Initiation
Protocol(SIP) and Real-time Transport Protocol(RTP). SIP takes care of establishing a session
between two user agents(end points) through a proxy server or a redirected server by means of three
way hand-shaking. Once the session is established, RTP takes care of data transfer between the
users. Each user agent and the proxy have their own client and server. More users may participate
in the conversation by registering with the proxy. SIP also manages and finally terminates the
session.
My role
Designing, coding, unit testing, debugging, and documentation. SIP header field formatting and
framing SIP messages. Transactions and transaction errors of UAs.

Project 5 **Metropolitan Ethernet Switch**

Metropolitan Ethernet Switch(MES) is a generalized, highly portable Layer2 managed data network
switch. It can be used with both commercial and open source real time operating systems(RTOS) viz.
VxWorks, Real Time Linux, eCos, etc. MES supports stacking for scalability of L2 switches and to
increase the port density.
My role

Design, coding , unit testing, debugging, and Integration. I dealt with Multiple Spanning Tree
Protocol (MSTP). The spanning tree protocol (STP) is a protocol used to eliminate loops in a local
area network (LAN). Devices running this protocol detect any loop in the network by exchanging
information with one another and eliminate the loop by properly blocking certain ports until the
loop network is pruned into a loop-free tree, thereby avoiding proliferation and infinite recycling
of packets in a loop network.

**Educational Qualifications:**

Course Board / University Percentageof Marks

M.Tech. (DSCE) J N T U, HYD. 72.5
B. Tech. (ECE) J N T U, HYD. 65.74
D E C E S B T E T, HYD. 78.65
S S C B S E, HYD. 79.5

**Personal Profile:**
Father's Name :S C Venkata Reddy.
Native Place : Nandyal, Kurnool(Dt.), A.P.
Languages known:English, Hindi, and Telugu
Marital Status : Married

Date : 09-05-2020 S L NARASIMHA REDDY