

Manish Mishra

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➤ Objective:

To build, manage, innovate a high class product adding a positive delta in the growth of an organization, technology, and in progressivity of everybody as a whole and last but not the least including me.

Job Description:

Brief:

I have ~13 **years of experience** with top product companies and successful Start-Ups in system requirement analysis , design and development of carrier grade Element/Network Management System (EMS/NMS) and its multiple aspects of it as Configuration, Fault, Performance, Accounting, Security, Service Quality Management (mostly comes in FCAPS) using Java, J2EE, C++, C, Flex, and Web Technologies mainly for enterprise wireless access devices/ networks with protocols like SNMP, Corba, Netconf(XML),TL1 . I have a fair understanding of OSS architectures. I have got experience in full Life Cycle Development including requirements, analysis, design, and implementation and deployment phases. I have got good experience with Scrum project management and Extreme software development methodology.

I have worn multiple hats as a Sr. Technical Manager/Sr. Solution Architect in NMS/EMS area. **I am currently leading a team of 15 people, doing technical and people management.** I have also played a role of Senior Solution Architect in making response to RFP/RFI released by vendors, which involves understanding of customer requirements and bringing the technical in scope and out scope requirements & business aspects into the proposal, I have got good experience in collaborating with cross functional teams and leaders in the purview of technical leadership. **I have natural inclination to this uncanny art of motivating people, bringing people together to achieve the tangible results and inculcating an innovative mindset in approach.**

Software Skills/Domain know-how:

Java, J2EE, WebServices, SOAP-XML, NetConf, C++, C, Unix, Linux, Clearquest, Purify, JBuilder, Netbeans, AdventNet Library, Client side ODBC, JDBC experience, SNMP, Corba, Adobe Flex 3.0, Adobe Flex Builder, Hibernate, Apache/Tomcat, AJAX, CSS, Swings, JFreeChart Library, RMI, Netconf.

Highlights of my experience:

- Client Server (Multi Tier) distributed architectures used in NMS.
- Service Oriented Architectures (SOA).
- Building user friendly User Interfaces.
- MVC design pattern to develop scalable NMS Graphical User Interface.
- SNMP agents, written using advent-net tool Kit.
- NMS managing Wireless networks and Mesh networks.
- Writing Graphical applications which demonstrated comprehensive network summary.
- FCAPS aspects of Network Management System.

- Using OOAD and analysis.
- Scrum and Extreme Programming Language.
- GUI Development.
- Gone through mandatory 35 hours PMP program.
- Wireless networks based on 802.11a/b/g/n standards.
- C programming on embedded micro Linux.
- Debugging and troubleshooting skills.
- Recruiting new team members.
- People management skill.
- Writing and verbal communication skills.
- XML Technologies.
- Demonstrated ability to work with a distributed team
- Understanding of networking concepts like switching, routing.
- Software development in a UNIX (HP-UNIX, Solaris), LINUX and Windows environment.
- Experience in Software Configuration management like Clearcase, Clearquest (defect tracking system), and SVN

Professional status:

Total Industry Experience: 13~ Years of experience

| Company Name | Duration | Designation |
|-----------------------------|------------------------|---------------------------|
| Tech Mahindra Ltd. | June 2010 – Till Date | Sr. Tech Manager |
| Motorola Solutions | July 2008 – June 2010 | Lead Engineer |
| Firetide Networks Pvt. Ltd. | Sep 2005 - June 2008 | Sr. Software Engineer |
| Sun Microsystems | Mar 2004 – Sep 2005 | Member of Technical Staff |
| Lucent Technologies | June 2000 – March 2004 | Sr. Software Engineer |

➤ **Summary of products worked upon:**

- Have worked on NMS for Wireless LAN Switches like RFS6000, RFS7000, RFS4000 and working on the next generation Network Management System.
- Experience in Firetide Networks India for products given below
 - Product HotView Pro Mesh Management Software
- Experience in Sun Microsystems for product given below
 - Solstice Enterprise Manager (SEM)
- Experience in Lucent Technologies for products given below
 - Service Quality Management (SQM)
 - Base Station Controller Frame (BCF), one of the nodes of GSM
 - Fault Server, NavisXtend Product
 - iEMS2.0 Platform, to rapidly develop an Element Management System.

Industry Projects (In chronological order):

- **Project 1:** EMS/NMS
Employer: **Tech Mahindra Limited.**
Description of Work: **Currently working as Engineering Manager at Alcatel-Lucent and handling a team of 15 people** for a key product line of Light Radio Management System, a complex piece of software.
- Responsible for planning, staffing, technical guidance, quality procedures, Conflict Resolution, Appraisals, coordinating with cross functional teams.
- Responsible for all the deliverables from Tech Mahindra side and account management.
- Previous experience of leading RFP/RFI response preparation for technical aspects for the EMS/NMS solutions.
- Supporting engineering team to scope the requirements and in architecting & designing the EMS/NMS software ·
- Interacting with the customers for Requirement clarification, Technical presentations, POC.
- Have got close to 2.5 million of business for the company with my proposals.
- Driving Patent initiatives and have got an approval for the patent idea within TechM and has been applied as **provisional patent in India Patent Office with Patent No. 3483/MUM/2012.**
- I have worked on multiple proposals and to name few involving development of MTOSI v.1.x Interface Adaptor, Capacity Management, development of unified GUI for surveillance systems, enhancement of KPI reporting tool, development of EMS-NMS for various product lines of tier one customer like (Motorola Solutions, Comat, NEC, Alcatel-Lucent).
- **Project 2:** Network Management System
Employer: **Symbol Technologies India Pvt. Ltd.**

Description of Work:

Worked on Element Management System and Network Management System for Wireless LAN Switches and Access points. We are using Java Swings for GUI and SNMP as communication protocol. Recently we have started on next generation Network Management System where we are using Flex for User Interface and communication to devices is done via XML RPC based under upcoming standard called Netconf. Backend is in python. We have developed framework for user interface which drives the GUI design and it is absolutely component based. I was providing technical leadership to the team. Design, code and ensure timely execution of deliverables. Proposed architectural/design changes to improve the usability and performance of the product. I work closely with US based engineering team to understand the products and technologies, release plans and ensure effective coordination between the two teams. I work closely with several cross-functional groups across geographical locations to ensure smooth execution of related activities.

Platform (SW/HW):

Linux

Learning:

Java Swings, SNMP, Flex, Netconf

Duration:

July 2008 – June 2010 Team Size: 6

**Project 3:**

HotView Pro Mesh Management Software

Employer:

Firetide Networks India Pvt. Ltd.

Description of Work:

Developed the SNMP module using Adventnet SNMP agent toolkit. Developed charting module. Supported N number of management features like Broadcast containment, Performance Management, ported MD5 algorithm from C to Java. Developed the full support for the new products introduced. Handling the application running on Node written in C language which talks to NMS. Writing SNMP MIBS for several products like Access Points and CPE. Developed Swing based GUIs for multiple features. Driving NMS feature developments from India.

Platform (SW/HW):

Linux, PostGreSql Database, Java

Learning:

NMS, SNMP, Java

Duration:

SEP 2005 – June 2008 Team Size: 5

**Project 4:**

Solstice Enterprise Manager

Employer:

Sun Microsystems

Description:

Worked on generic management platform for telecom network equipment supporting multiple south bound interface protocols. It exposes application programming interface so that service providers can call those APIs and develop customized management software. Worked on developing North Bound Interface for OSS/BSS

Platform (SW/HW):

Solaris UNIX, Informix database, Code manager tool.

Learning:

NMS, ASN.1, GDMO, CMIP, SNMP

Duration:

APRIL 2004 – SEP 2005 Team Size: 8

- **Project 5:**
Employer:
Description:
- Service Quality Manager**
Lucent Technologies
 With VitalSQM service providers can offer custom-tiered SLAs that can be reliably measured and confirmed, reducing SLA penalties and enhancing customer satisfaction, the solution measures end-to-end service level compliance and prevents degradation of services. Worked on expression compiler which parses arithmetical expressions of key performance indicators and key quality indicators into meaningful format for SQM. Worked on a tool which reports the comparison of real data stored in database with the data stored in pre-populated file for a defined input.
- Platform (SW/HW):** C++, Java, Windows, Solaris Unix, Oracle database, Clearcase in the Configuration Management software, Clearquest.
- Learning:** Understanding of Service Quality Management system, Lex and Yacc, Usage of Purify, Understanding of Oracle Database, Learnt C++, Learning of Makefiles.
- Duration:** MAY 2003 – MARCH 2004 *Team Size: 10*
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- **Project 6:**
Employer:
Description:
- NiEMS**
Lucent Technologies
 iEMS platform provides a framework for rapidly developing an Element Management System (EMS) platform that is cost effective, extendable, scalable, and highly reliable and that supports various types of new and existing Network Elements (NE). NiEMS was the development of EMS using iEMS for Lucent access devices, which provides the ability for a user to invoke actions that act on NE. It also provides near real-time presentations of specific Network aspects that show the state of the NE. Various NMS functions have been included into the EMS solution to provide customer value. Developing EMS for a particular NE is meta-data driven.
- Platform (SW/HW):** SNMP, Java, XML, Solaris-Unix, Versant OODBMS, Rational Rose Model tool for Object Modeling, Clearcase in the Configuration Management software, AdventNet tool, HP-Open view
- Learning:** Understanding of Architecture of iEMS Platform in reference to TMN model, MIB, Object modeling of PSAX management system, Fault Management System, Alarm correlation, working of PSAX device, rational rose sequence diagrams, Circuit configuration, SNMP.
- Duration:** MAY 2002 – APRIL 2003 *Team Size: 20*
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- Project 7:**
Employer:
- NAVISXTEND FAULT SERVER**
Lucent Technologies

Description: NavisXtend Fault Server provides SNMP based fault management services. The features provided by fault server include:

- Creating Alarms from Traps from the Lucent core and access devices like GX500, BSTDX9000, PSAX
- Applying alarms to rules
- Alarm Forwarding. Can forward alarms and traps as SNMP traps to other applications.
- User Actions on alarms (Close, acknowledge, assign, change severity)
- Database Storage in Sybase database
- Client interface for viewing traps and alarms
- Trap forwarding based on switch ID, lport, pport, and circuit DLCI, VPN IP, Customer ID and alarm severity.
- Supports trap sequencing and Reliable trap processing
- Group Alarms
- MIB compiler supports so that new switch code and hardware, including third party devices are field upgradeable.

Platform (SW/HW): Client side Java, C++, Solaris Unix, Interaction through SQL with SYBASE database, SNMP.

Learning: Understanding of Fault detection and correlation methods, SQL, SNMP, exposure to SNMP protocol stack, usage of Solaris debugger, usage of RogueWave libraries, MIB, learning of PIPES in IPC as it was multi-process product.

Duration: OCT 2001 – APRIL 2002 *Team Size: 3*

Project 8: **CLUSTER COMPUTING PROCESS (CCP)**
Employer: **Lucent Technologies**
Description: This project is part of Base Controller Frame (BCF) in Lucent GSM network. It involves an understanding of the High Availability and Fault Tolerant systems (Reliable Cluster Computing (**Lucent's proprietary**)). The Cluster Computing Process is the interface to High Availability System and GSM Application software. Its design is multithreaded. It uses Unix Sockets, Corba and Message Transfer Mechanism (MTM) to communicate with other process in BCF, Posix threads for multithreaded programming.

Platform (SW/HW): C, HP-Unix, Sablime and Clearcase in the Configuration Management software, IONA Orbix as ORB in CORBA, MTM communication for SDL process, POSIX threads, RougeWave queues and BCF frame for testing.

Learning: As it being the first Industry project for me learning was immense in every aspect of software field. Understanding of Cluster Computing, Fault Tolerant System, Multithreaded Architecture, CORBA, BCF frame etc.

Duration: OCT 2000 – SEP 2001 *Team Size: 3*

- **Academic Project:**
Project: Design and Implementation of DIRECT SEQUENCE CDMA TRANSMITTER.

PROFESSIONAL EDUCATION:

1996-2000 B.Tech. in Electronics & Communication Engineering (CPI – 8.7/10),
IET Kanpur, INDIA, First class with Distinction.

PERSONAL DETAILS:

Date of Birth: July 17,1977
Marital Status: Married
Sex: Male
Permanent Address: 7-M-8, Dabauli, Kanpur, 208022.
Nationality: Indian

I declare that the information given above is true to the best of my knowledge.

Manish Mishra