Curriculum Vitae

David Horton

Senior Software Engineer

Career Highlights

➤ Senior engineer developing and extending RSA BSAFE security products which are embedded in over one billion applications and devices.

➤ Senior engineer developing RSA Key Manager which is embedded in applications to provide security requirements for the payment card industry (PCI) standard.

➤ Development and deployment of critical applications and systems for '3' mobile network.

➤ Network fault and performance reporting systems deployments using HP OpenView Operations(OVO), Network Node Manager (NNM) and IBM Tivoli NetView for Telcos and other enterprises.

➤ Audits of Telco networks and support systems for performance and security

➤ ATM standardization and implementation – AToMMIB, NHRP, LANE, PNNI, MPOA, CES, VTOA, FRF.5/8. ATM is a network technology used in broadband access and core networks.

➤ Simple Network Management Protocol (SNMP) development of agents and element management systems for network equipment vendors.

Key Skills

➤ C, C++

➤ Requirements analysis and design

➤ Unix application development

➤ Network and Element Management

➤ OpenView Windows, Network Node Manager, Operations (OVO), Tivoli NetView

➤ ATM

➤ SNMP

➤ Shell, Perl, PHP, Javascript and other scripting languages

➤ Visual Basic, ASP, Ada, Java

Experience[*]

Most recently I returned to coding, with RSA (the security division of EMC). I have been working on new releases of a couple of their data security and key management API library products. Primarily this is C, with some Java and some perl and shell scripting for the build system. I started with RSA in October 2006.

From 2004-2006, I was deploying OpenView Operations in the "3" and Orange networks run by Hutchison. Custom work has included templates and reporting tools.

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[*] The current version of this CV at http://www.chapelhill.homeip.net/CV-HortonD.pdf and a separate document detailing my job history can be found at http://www.chapelhill.homeip.net/job_history.html .

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When with Lead Up (2002-2004), I mostly worked with telcos in planning and deploying systems supporting fault reporting, performance analysis and billing data collection. HP OpenView Network Node Manager and Operations were used as a platform for some of these systems. Other systems and analysis included use of Perl and other scripting.

Prior to that, I was with the CiTR, a professional services specialising in software for new technologies in the Telco and networking space. In 2002 I developed IN-network (13 number) configuration applications for AAPT using Visual Basic, ASP and Access databases. In 2001, I worked with HP in Colorado as a consultant in designing systems for managing VoIP hardware in conjunction with Cisco, and large scale internet data centres. Earlier I designed management systems for McData and Carrier Access Corporation in Colorado.

Starting from 1993 to 2001, I designed and developed SNMP agents and network/element management systems for the management of ATM networks. The protocol implementations and management were drivers of ATM Forum and IETF standards such as RFC 1695/2515, RFC 2520, M3, ILMI, MPOA, NHRP and PNNI. Some implementations were based on HP's OpenView network management platform with SNMP agent development based the use of CiTR's MIB Master SNMP toolkit (which I developed). These systems were developed in C for NEC divisions around Japan and around the US.

In 1999, I was seconded to Astracon to work on IP-VPN network designs and CMIP based ATM switch configuration. Some of these were prototyped in C++ and Java.

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Personal details

- Name: David Hugh Nicholas Horton
- Marital status: Married
- Nationality: Australian
- Hobbies: Cycling, Family history research, Travel

Contact

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Education and affiliations

- Graduate Diploma in Computer Science, 1988, Queensland University of Technology.
- BSc (Honours) in Physics, 1980, The University of Queensland.
- Member of the System Administrators Guild of Australia
- Member of the Australian Computer Society.

Employment history

- RSA security (2006-)
- Consultant to Hutchison Telecom via ASG group (2006)
- Consultant to Hutchison Telecom via Manpower (2004-2006)
- Lead Up Software (2002-2004)
- CiTR (1990-2002)
- Digital Equipment Corporation (1985-1990)
- La Trobe University (1984-1985)
- Monash University (1984)
- University of Queensland (1980-1983)

Referees

- Referees available on request