

Boyd ROBERTS

UNIX ARCHITECT AND NETWORK SECURITY CONSULTANT

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Australian National — French Resident

PROFESSIONAL EXPERIENCE

AB Strakt
2002 - 2003

Systems Developer
Göteborg, Sweden

Design and development of an OO object server, written in Python, layered on SQL RDMS's. Objects can be stored, retrieved and searched for. In addition, notification of object creation and modification can be requested. More complex actions can also be performed when objects transit specified states at optionally specified times.

The original application was for a CRM Object Server. Should the public domain version of the server paper [PDF] be required it can be supplied on request.

Beeway
1996 - 2001

Systems/Network Engineer
Paris, France

Crédit Agricole Indosuez

Responsible for the Bank's international mail and Web servers.

UNIX and Firewall technical consultancy.

France Telecom

High Availability Systems Administration [AIX, HP-UX].

SFR

Writing of an HDML [now WAP] programming style guide.

End to end security study of HDML services over GSM [HDTP/RC5/GSM/SSL].

France 3

Design and development of client/server applications [C, Windows 3/95/NT, System V Release 4, TCP/IP].

Design and installation of Firewalls [SV5R4].

Consultant
1994 - 1995

Sydney, Australia

Fujitsu Australia Software Technology

Development of a transactional filesystem [Encina SFS, DCE RPC/threads].

Registry of Births, Deaths and Marriages

Refinement of printing technology of marriage, birth and death certificates [System V Release 4].

VODAC

Digital UNIX Systems Administration, used to manage their client base [BSCS, GSM, Oracle DBA].

Digital, Paris Research Laboratory
1991 - 1993

[PRL]

Member of Technical Staff
Paris, France

Responsible for the computing environment of the Laboratory.

Administration of DECstations 3100 and 5000, VAX [8000 series and micro], Sun 3, Sparc and Alpha.

Maintenance of the IP and ISDN networks (local and international) and firewalls.

Systems Administration liaison with the other Digital research laboratories [CRL/SRC/NSL/WRL].

NEC Information Systems
1988 - 1990

UNIX Consultant
Sydney, Australia

Reporting, to Japan, and debugging of systems in Australia.

Frequent travel to Japan to fix UNIX kernel bugs and quality assure new UNIX systems [System V Release 2] before their commercial release in Australia.

Austec
1987

Support Engineer
London, England

Support and porting of a UNIX COBOL system, written in C [UNIX System V Release [0123] and 4BSD].

The Instruction Set
1986

UNIX Consultant/Trainer
London, England

Consultancy in soft real time, NFS, the UNIX kernel and device drivers [System V Release 2-3].

UNIX trainer: shell, tools, kernel, device drivers.

NFS kernel port from the VAX 2.0 release to a 68020 (correcting various bugs in the reference version).

University of Sydney
1984 - 1985

Systems Administrator
Sydney, Australia

Administration of VAXen 11/780 [UNIX 32/V].

Maintenance of the various different networks used by the University.

Design and implementation of UNIX kernel performance improvements (copy-on-write fork, single context switch).

Porting UNIX 8th Edition to the VAX 11/780, including design and implementation of a file-system switch to transparently access 512 byte block 32/V file systems.

HARDWARE

680X0; Digital/Compaq Alpha, DECstations 3100 et 5000, StorageWorks RAID, VAX; EMC2, DLT; HP 9000; IBM RS/6000; NCR; PC/compatibles; Sun; UnixWare.

OPERATING SYSTEMS

4.1BSD, 4.2BSD, 4.3BSD, *BSD; AIX; Digital UNIX; HP-UX 10; Inferno; Linux; Plan 9; Solaris; UNIX Systems III, V.0, V.2, V.3, V.4; UNIX Editions 6, 7, 8, 9, 32/V; ULTRIX; Windows 3/95/98/NT.

NETWORKS

ATM; DECnet; dial up; Ethernet; GSM; IP: UDP/IP, TCP/IP, DNS, FTP, HDTP, HTTP, SMTP, TELNET; NFS; ISDN; LDAP; SOCKS4; UUCP; WiFi; WinSock; X.25.

PROGRAMMING LANGUAGES

C, Python, shell, bash, awk, sed, make, nroff/troff, HDML, HTML.

SOFTWARE

AdvFS, CVS, DECnsr, DCE RPC/threads, Encina SFS, HP-UX HA, LVM, Netscape proxy/directory server, REELBackup.

SECURITY

Challenge/Response cards; Cyberguard; DES (Data Encryption Standard); GSM: A3, A5, A8; MD5 (Message Digest 5); IDS; M>WALL; NFR; PGP; PKI; RC5; RSA; SSL/TLS; TIS FWTK (Firewall Toolkit).

EDUCATION

1998	ATM
1991	4.3BSD kernel
1989	New technologies in UNIX System V Release 4 [Tokyo, Japan]
1989	X.400/500
1981 - 1983	University of Sydney, Australia

LANGUAGES

English	native speaker
French	fluent
Japanese	survival
Swedish	survival

MISCELLANEOUS

Radio Amateur since 1978 (VH2BHR), films, electric guitar [Gibson Les Paul Standard, Rickenbacker 360], GPS (Global Positioning System), restaurants, wine, digital photography, 9mm semi-automatic pistol shooting.