

## **Rich Teer**

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### **Skills Summary:**

- I am the author of the best-selling C programming textbook, *Solaris Systems Programming*, published by Sun Microsystems Press (an imprint of Prentice Hall PTR) in 2004.
- I have 20+ years C programming experience, most of which are UNIX based (STREAMS device drivers, IPC, kernel internals, shared object libraries, sockets, TCP/IP, applications, etc.).
- I have 18+ years UNIX experience (mostly on the Solaris platform).
- I have about 18 months of embedded firmware development experience.
- I am a Sun Certified System Administrator (SCSA), Network Administrator (SCNA), and Security Administrator (SCSECA).
- I have worked in environments ranging from little desktop workstations to behemoth enterprise servers.
- The usual UNIX services, e.g., Sendmail, DNS (BIND), Apache, shell scripting, PHP, PostgreSQL, and so on).
- I have had numerous technical articles about programming and systems administration published, both online and in print.
- I have previously held a SECRET enhanced security clearance.
- I am a past president of the Central Okanagan Home Based Business Association, and was on the association's board of directors for several years.

### **Work Experience:**

August 2007 - November 2008

Signalink Technologies, 14-2550 Acland Road, Kelowna, BC V1X 7L4

Position: Systems Architect. Responsibilities: I helped design, develop, and test firmware for embedded systems, specifically, the Fire-Link fire notification over power lines product. The firmware was written in C, targeting the Atmel AVR ATmega128 MCU. I also developed a highly scalable power line simulator in C, using Pthreads on the UNIX platform, to help with the development of the next generation of Fire-Link. Finally, I helped manage the company's IT infrastructure (diagnosing network issues, setting up email accounts, etc.), and served as a programming mentor and C advisor.

February 2005 - September 2005

Telus, 10020 100th Street, Edmonton, AB T5J 0N5

Position: Systems administrator (contract position). Responsibilities: helping my team of 10 or so fellow UNIX system administrators install, configure, and maintain about 400 Sun servers of various types (from E220Rs to E6900s and Sun Fire 15Ks). Most of the servers were used for internal Telus business operations, e.g., customer billing, HR, and so on. Many of these systems used Veritas Volume Manager and Veritas Cluster Server. This was initially a four-month position that was extended by three months.

May 2001 - February 2005  
Freelance consultant

Although I spent most of the time between May 2001 and August 2004 writing my first book, *Solaris Systems Programming*, I also spent some of the time doing some freelance UNIX consulting work. Clients included Livewire Business Automation, Castanet Media, and Stokes.

November 1999 - May 2001  
Silk Internet, 1568 Pandosy Street, Kelowna, BC V1Y 1P4

Position: UNIX Systems administrator (contract position). Responsibilities: Ensuring the smooth operation of Silk's Sun servers; building and configuring Internet daemons (e.g., Sendmail, Solstice DiskSuite, BIND, Apache, and ProFTPD); backups (performed using some custom scripts I wrote); backend programming for web sites in Perl and MySQL; system and network security; and specifying new pieces of equipment.

February 1999 - June 1999  
Wavefire Technologies Corporation, 206-1726 Dolphin Avenue, Kelowna, BC V1Y 9S4

Position: VP of Software Engineering. Responsibilities: I wrote a billing system in C for their ISP business, using the libpq C interface library of the PostgreSQL DBMS.

November 1998 - February 1999  
I spent several weeks preparing for my move from the UK to BC (all positions prior to 1999 were in the UK).

August 1998 - November 1998  
Netcom Internet Ltd, St James' House, Oldbury Road, Bracknell, Berkshire RG12 8TH

Position: Consultant. Responsibilities: Design and implement their next generation of billing and access software; size and specify the servers for the new system; and document the proposals.

May 1998 - August 1998  
Greendown Software, Telford Point, Telford Road, Basingstoke, Hampshire RG21 6XZ

Position: C/UNIX consultant. Responsibilities: Design and implement the 3rd and 4th releases of their telephony fraud detection product; provide general C/Solaris advice; and define the configuration of their new Sun servers (an E450 and an Ultra 5).

June 1996 - May 1998  
Sun Microsystems, Watchmoor Park, Camberley, Surrey GU15 3YL

Position: Consultant. Responsibilities: Two months in the Operating System Customer Support Group, providing telephone technical support on OS issues; two months in the Mission Critical Support Group; eight months in the OS Product Support Group; three months in Sun Professional Services, porting around 1100 modules of a large set of jet engine design program; and six months with the IMP Business Unit, writing software for their next generation of fault tolerant servers, the Netra ft 1800.

March 1996 - June 1996  
Digital Equipment Corporation, DEC Park II, Reading, Berkshire

Position: Consultant. Responsibilities: Porting a product (consisting of about 150 Korn Shell scripts) called XSA for BT from various platforms to Digital UNIX.

November 1995 - March 1996

While looking for a new contract, I spent some time writing a 65C02 emulator and assembler in C.

August 1995 - November 1995

Ultra Electronics Command & Control Systems, Knaves Beech Business Centre, High Wycombe, Buckinghamshire HP10 9UT

Position: C/UNIX Consultant. Responsibilities: I wrote a daemon which starts up all the other bespoke processes that make up the system, monitors them, and restarts them if required; wrote a shared object library, which the rest of the team used to build their components; provided general C/Solaris advice; wrote some Agents for a High Availability product called FirstWatch.

October 1994 - August 1995

Insignia Solutions, Kingsmead Business Park, High Wycombe, Buckinghamshire HP11 1JU

Position: Senior Software Engineer. Responsibilities: Wrote parts of the DEC Alpha OSF/1 port of the CPU of their flagship product, Soft Windows; wrote a networked build program using sockets over TCP/IP; and interviewed prospective employees.

July 1992 - September 1994

ICL Secure Systems, Jays Close, Basingstoke, Hampshire RG22 4BY

Position: Designer/Implementor (UNIX). Responsibilities: Designed, wrote, and tested system software for a large military project; wrote kernel based STREAMS code; worked on a package that supplemented a disk mirroring product called VxVM; and documented my code to MOD standards (I received a commendation from the QA department, praising the high standard of my documents).

January 1991 - June 1992

Speedwing Travisoft, Grove Park, Maidenhead Berkshire SL6 3UB

Position: Programmer. Responsibilities: Design, write, and test Microsoft Windows 3.x applications written in C.

October 1990 - November 1990

Diamond Point International (Europe), North Point Business Centre, Rochester, Kent ME2 4LY

Position: Consultant. Responsibilities: Wrote a suite of test programs and device drivers to test a VME Bus system, in C, talking directly to the hardware.

July 1988 - September 1989 &

July 1990 - October 1990

GEC Avionics Ltd, Airport Works, Rochester, Kent ME1 2XX

Positions: Trainee Software Engineer and Software Engineer. Responsibilities: wrote software in CORAL for a large military embedded real time system.

## **Education:**

September 1987 - July 1990

Mid-Kent College of Higher & Further Education, Maidstone Road, Chatham, Kent ME5 9UQ

HND Computer Studies: 5 Merits, 7 Passes, Final Year Group Project: Distinction. My Higher National Diploma (HND) has been recognised by the University of Toronto as being equivalent to a

three year Diploma in Computer Studies. At college I designed and built a microcomputer from scratch, and wrote a thread library in C and assembler for a single board computer. I gave two lectures on the design of the latter.

**Professional Development:**

March 2003	Sun Certified Security Administrator
December 2002	Sun Certified Network Administrator
November 2002	Sun Certified System Administrator
March 1997	Kepner Tregoe Analytic Trouble Shooting
January 1995	80486 Internals
January 1994	Advanced C Programming Under UNIX SVR4
May 1993	UNIX SVR4 Kernel Internals

I have also attended non-technical courses, such as Assertiveness Techniques, Presentation Skills, etc.

**Hobbies And Interests:**

Listening to music, high-end audio, photography, reading, writing, skiing, and camping.

**References:**

Excellent references will be supplied on request.