

Rich Teer

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SENIOR C DEVELOPER | PROGRAMMER ANALYST

Very experienced developer with an extensive background in C programming (especially on Linux/UNIX and embedded systems), UNIX and Linux systems administration, and technical writing. Have developed networked applications using TCP/IP and served in several mentoring and advisory positions. Author of *Solaris Systems Programming*, a C programming text book published by Prentice Hall, and numerous programming and systems administration articles. Technical reviewer for several books, including Volume 2 of W. Richard Stevens' *UNIX Network Programming*, and the Second Edition of *Solaris Internals* by Richard McDougall and Jim Mauro.

Areas of Expertise

- C/C++ on Linux/UNIX programming (more than 25 years).
- TCP/IP networking (more than 10 years).
- Embedded firmware development (more than 3 years).
- Linux kernel development (about 3 years).
- SCM using git and others.
- Debugging using gdb.
- Project and issue tracking using JIRA.
- SECRET Enhanced Security Clearance (expired).

EXPERIENCE

BicDroid, Waterloo, ON (remote)

June 2023 – May 2026

Senior Software Engineer

Contributed towards the development of QDocument SE, Linux server-side security software that is implemented in the kernel and user land. All software is written in C, on a variety of Linux distributions and a wide range of kernel versions.

Logibec, Kelowna, BC (remote from March 2020)

December 2016 – February 2023

Programmer Analyst Level 3

Spearheaded the development of fixes and new features for Logibec's next-generation Human Capital Management (HCM) product, VIP, the backend of which is written in a mixture of C and Oracle's Pro*C. Developed tools that were used for managing, monitoring, and deploying VIP environments; managed the merging of updates from our development partner; and interviewed prospective candidates.

WTFast (What The Fast), Kelowna, BC

March 2014 – October 2015

Senior Manager of Systems Architecture

Contributed to the development of Linux server-side and embedded software that formed part of WTFast's Gamers' Private Network (GPN); the embedded software transparently proxied latency-sensitive TCP and UDP traffic over the GPN, and was written for high end consumer routers running OpenWrt. Provided technical input into various discussions on an ad-hoc basis.

CATO (Centre for Art and Technology), Kelowna, BC

July 2011 – December 2017

Instructor (part time, contract position)

Taught various aspects of Linux systems administration to students on CATO's 18-month *Network Security Specialist* (NSS) program. In addition to teaching the courses, was engaged by CATO to re-develop their entire three-month series of Linux courses, for deployment across all of their campuses.

Kelowna, BC

December 2008 – February 2014

Took a career break to run my own audio magazine while keeping abreast of current developments in C/Linux software. Also spent some time in England performing Executor duties for my dad's estate.

Signalink Technologies, Kelowna, BC

August 2007 – November 2008

Systems Architect

Designed, developed, and tested firmware for safety-critical embedded systems. Re-wrote the firmware from scratch for one product in less than one year, and increased the performance of a power line simulator by several orders of magnitude. Also helped manage the company's IT infrastructure (diagnosing network issues, setting up email accounts, etc.), and served as a programming mentor and C advisor.

I will be happy to discuss my professional experience prior to this date in an interview.

EDUCATION

Mid-Kent College of Higher & Further Education, Chatham, Kent, England

July 1990

Higher National Diploma (HND) in Computer Studies

5 Merits, 7 Passes, Final Year Group Project: Distinction. My 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 an 8-bit microcomputer from scratch (including writing the operating system in assembler), and wrote a thread library in C and assembler for a 68000-based single board computer. I gave two lectures on the design of the latter.

PROFESSIONAL DEVELOPMENT

Sun Certified Security Administrator
Sun Certified Network Administrator
Sun Certified System Administrator
Kepner Tregoe Analytic Trouble Shooting
80486 Internals
Advanced C Programming Under UNIX SVR4
UNIX SVR4 Kernel Internals

Attended various technical and non-technical courses, such as Networking with Cisco Technologies, Wireless Networking, Assertiveness Techniques, Presentation Skills, etc.

VOLUNTEER WORK

Past-President of the official Tesla Owners Club of BC, and have served on the board of other associations.

HOBBIES AND INTERESTS

Listening to music (especially on vinyl), high-end audio, renewable energy, EVs, photography, reading, writing, hiking, and camping.