

Robert S. Sciuk

259 Simcoe St. S.
Oshawa, On. L1H 4H3

Software Development

Rob@ControlQ.com
905.576.8028

Director, Technical Services

Software architect, developer and entrepreneur with extensive experience mastering projects of progressively difficult scope and technical complexity. Co-founded a successful software company (SSG/Innovus) that grew from six to 60 employees. Created a successful consulting company after startup was sold to Legato Systems (EMC) following fourteen years of steady growth.

- Launched Control-Q Research in 1996, a successful IT and business consultancy.
- Identifies and unlocks a company's critical business processes and systems; then applies a blend of technology and personnel to propel the business forward.
- Master team builder and motivator with strong leadership skills, identifies top talent and coaches team members.
- Reliable team leader who thrives on tough technical and business challenges.

Areas of Expertise

Business Analysis and Requirements Gathering • Systems Analysis and Design • Software Development • Third Party Solutions Identification and Evaluation • Disaster Planning and Recovery • Data Storage and Archiving • Database Architecture • Performance Analysis • Product Support Services • Customer Presentations and Communications • Technical Project Management and Scheduling • SDLC • Technical Personnel Management • Software Portability • Mobile and Embedded (Palm, WinCE, WinMobile, Android) • Device Drivers • Network Security (pf, BGP) • Programming languages C, C++, Tcl/Tk, shell, awk, lex, yacc, PHP, SQL, DDL, Javascript, jQuery, HTML, CSS, Ruby, Perl, Python, Forth, Java and more • Arm, AVR, Freescale

Professional Experience

Control-Q Research Inc.

1996-Present

Management, software and IT consulting

Oshawa, Ont.

Principal Consultant

Designs and implements solutions including: Web development; Web facing database systems; network infrastructure; POS software deployment, Label/Barcode Printer drivers; Backup and disaster recovery planning and implementations. Conducts IT/CTO personnel selection process.

- Established a successful consulting business, starting from scratch, with numerous clients including: Blastech, Kirby Structures, North Port Trailers, La-Z-Boy Furniture Galleries, T.F. Warren Group, Ippolito Fruit and Produce, Legato Systems/EMC, Minitab, ITML, and many smaller organizations.
- A particular focus upon storage management, backup and recovery, content addressable storage facilities, consumer image management, database technologies and software development.
- Expert at translating real business needs into formal requirements, and in architecting affordable and flexible solutions which scale, are extensible and accurately reflect business requirements.
- Designed and implemented embedded controller – including touch screen HID and relay control unit – for automated industrial batch fluid delivery system.
- Familiar with multiple operating systems and languages, Open systems advocate and FOSS expert.

Legato Systems (now EMC).

1996

Leading Enterprise Storage company, enterprise backup recovery software.

Burlington, Ont.

Member, Technical Staff

Following the sale of Innovus to Legato, managed transition of key corporate financial systems, product software licensing database, corporate contract administration, staff assignments and legacy fiduciary obligations.

- Successfully gathered, compiled and defended R&D tax-credit submissions.
- Performed mainframe scalability testing for core Legato software at HP Labs (Cupertino); wrote an

architectural design and scalability analysis used as design aid for next generation product.

- Accounting information transition (ETL) to new corporate systems.

Innovus, Inc (SSG)

1984-1996

A Software Development Company

Hamilton, Ont.

Innovus was a consulting and software development company spun out of McMaster University, involved in software development, and world-wide distribution and support of top tier software products from such partner companies **Novell, Legato Systems, SPSS, SIR/DBMS, Minitab, UCLA** among others.

Director, Technical Services

1990-1996

Engineering lead, ultimate project responsibility and responsible for ongoing relationships with strategic partner companies. Responsible for project/product revenues totalling > \$5M annually.

- Responsible for staffing, project management, software development, support and distribution of all software products (minimum 5 concurrent projects at any given time representing over 60% of corporate revenues) and a staff of approximately 25 software engineering FTE's.
- Designed and created a proprietary software licensing mechanism to enable a tiered distribution model that allowed software trials, permanent licensing and fine-grained incremental feature control.
- Conceived and designed a data-driven SCSI robotics controller for tape storage jukeboxes and mass storage devices that drastically reduced time to market for new storage vendor/device support. Used data-driven universal driver rather than hard coded drivers.

Manager, Technical Services

1987-1990

Managed all software development engineers and directed projects that generated approximately 60% of total company revenues. Grew technical team from 2 full time employees (FTEs) to over 20. Provided technical leadership; taught systems architecture; advanced use of compilers, debugging tools, source management techniques and fault isolation skills. Activities included staffing, provisioning, development, test and release.

- SDLC responsibility for various projects including NetWare for HP-UX, SPSS, Minitab, BMDP, SIR/DBMS, Sys-Stat and 20/20 Spreadsheet.
- Responsible for IT support and systems management for entire company.
- Responsible for performance review of all engineering and IT staff.

Tech Support/Systems Analyst

1985-1987

Provided pre- and post-sales support as sole technical support and training representative. Activities included statistical DBMS (SIR/DBMS), consulting services, database design, and in house training and support for contract clinical trials data management. Key clients included Astra, US Census Bureau, Kidd Creek Mines, Boehringer, Montreal General Hospital, Texas A&M.

Senior Programmer/Analyst

1984-1987

Co-founded SSG, a spinoff company that leveraged programming expertise acquired from CEB projects at McMaster University. Developed compiler tools that helped manage source code and "virtualized" memory in a constrained memory environment (FORTRAN, SPL, C). Changed name to Innovus (1985).

McMaster University

1981-1984

Department of Clinical Epidemiology and Biostatistics

Hamilton, Ont.

Programmer/Analyst

Joined small informatics group of programmers and collaborated with Dr. Gary Anderson (faculty of the world renowned CEB). Wrote integration software (C/SPL) for project – multi-million source lines of code (FORTRAN) that migrated statistical packages SPSS, Minitab, and BMDP from IBM mainframe to HP 3000 (MPE-V/XL) / HP 9000 (HP-UX). Interest resulted in a world-wide distribution of software to academic and commercial sites worldwide on a license basis and led to the formation of a spin-off corporation.

Education

B.Sc. Biology, McMaster University

1977-1981

Molecular Genetics, Ecology, emphasis on Statistics, computer modelling, math.

Current Technical Competencies

Robert S. Sciuk, Principal Consultant

Operating Systems

Windows Vista/XP/7	FreeBSD	Debian	OpenBSD
NetBSD	Ubuntu	FreeRTOS	Linux/ARM
HP-UX	Solaris	AIX	

Programming Languages

ANSI C	Tcl/TK	C++	PHP
Forth	Python	Perl	Java
Ruby/Rails	UML	FORTRAN	awk/sh/reg.exp/lex/yacc

Web 2.0 Technologies

Apache 2.x	HTML/CSS	XML/SOAP/XForms	PHP
Drupal 6.x	Tcl/Rivet	JavaScript	jQuery

Database

SQL	PQL	PostgreSQL	MySQL
SQLite	Firebird	Sybase	SQLServer
Jet/Access	ODBC	Design/normalization	

Network & Communications

TCP/IP	SSL (OpenSSL)	Sockets	Streams/SYSV-IPC
IPX/SPX	DNS/DHCP	PF Firewall	ISDN/DSL/POTS
RPC	DES/SHA1/	Nortel/Meridian	NFS/AFS/Samba

Virtual Computing

QEMU	Xen	VmWare Server	Bochs
VNC	X-Windows	SAN/RAID	VirtualBox

Embedded Development

Palm/OS	u-CLinux	Forth/assembler	AVR/ARM
WinCE/Mobile	Nintendo-DS/Linux	Gnu X tool chain	