

Synopsis

- Over **30 years** of professional experience in most aspects of Information Technology, in a wide range of industries and disciplines; specializing in IT Security and Audit for the last **20 years**;
- **CISSP, CISA and CPTE/CPTC (pen-test) certified**; Member Vancouver Security SIG (past chair), ISACA, PolCyb and OWASP (past chair, Vancouver Chapter);
- Enhanced Security Clearance (Canadian Federal Government via RCMP);
- Expertise in I.T. Security, including: Security architecture design and implementation; **pen-testing (ethical hacking) and vulnerability assessments, incl. applications**; Threat/Risk Assessments; Compliance and Privacy, incl. PCI DSS; Firewalls; Intrusion Detection/Prevention (IDS/IPS); UNIX and Windows; various security tools; **Wireless audit and survey**; Identity Management; training, incl. course development;
- Extensive experience with **Windows and UNIX** Operating Systems; exposure to mainframe systems;
- Broad knowledge of communications systems and Local and Wide Area networking, including wireless;
- Solid background in relational databases: **Microsoft SQL-Server, Oracle, Informix, Sybase, MySQL, DB2**;

Work History

July 1998 – present, Principal Consultant, WaveFront Consulting Group (WCG)

(The WCG joined the Procyon Security Group partnership in January 2012)

- Web application security and network penetration testing for BC statutory organization (2015-ongoing);
- Review of IT security controls for the **Public Employees Benefits Agency (PEBA), Ministry of Finance, Government of Saskatchewan**; ad hoc security consulting (ongoing);
- External penetration test (network, 50+ applications, wireless networks, social engineering, Denial of Service) for large local municipal government (2014-2015);
- Security architecture design, threat modeling and **security testing of web applications; security assessments, pen-tests and incident response (Top Producer Systems / Move Inc.)** (2005-12);
- **Security consulting for the BC Liquor Distribution Branch (LDB) – Penetration Testing and Vulnerability Assessments (PCI and non-PCI) on as needed basis (starting December 2015)**; Assistance with PCI DSS efforts, incl. threat modeling and penetration testing; firewall and router audits; security assessments of Special Occasion Licenses Online (SOLO), Oracle Financials, Vendor Facing Web, Liquor Inspection Support, Wholesale Order Management, Store Ops and other systems; wireless security assessment & remediation; secure Linux and Windows server deployment; assistance with Identity Management strategy; Security review for IDS deployment; architect and deployment of secure remote access facilities (2001-2011, 2014-ongoing);
- **Penetration testing** for PCI DSS compliance for BC Transit (2012-2013) and Pacific Blue Cross (2015). Latter included thick client and mobile (smart phone) applications;
- **Web Application Security Assessments, Training, Architecture Design & Security Consulting** for IAP Life; BC Ministries of Health, Social Services, Finance and Citizen Services; WPS-Disaster Recovery; Pro-Training (now Yardstick); Best Buy / Future Shop; Simon Fraser University; BC College of Registered Nurses; BC Campus; Pacific Blue Cross; H.Y. Louie (IGA); BC/Yukon Panorama public health project; Provincial Health Services Authority (PHSA), etc.(2000-now);
- **Security Reviews, Vulnerability Assessments & Penetration Tests (incl. wireless)** for the BC Medical Association (BCMA), Yukon Govt. & College, nZone Media, Mark Anthony, Ministry of Citizens Services, Workers Compensation Board (AB), various municipalities & forestry companies, etc. (1998-now);
- Assistance with **PCI DSS compliance** for several organizations, incl. Vancouver Aquarium (2010-12);
- **Threat-Risk Assessments (STRAs), consulting** - BC Health Authorities, Ministry of Health (2008-12);
- **Security Architecture Design, Penetration Testing and Security Reviews for Citadel Commerce (Internet Payment Gateway)** – Reviewed security issues and developed a prioritized security plan to address gaps; Provided guidance on security controls and policy development; worked on bank clearing-house systems and cryptographic processes (Canada/US); wireless networks; legal and services provider compliance requirements (Visa, MasterCard, STAR, NACHA, PCI, FSA); disaster recovery/ business continuity planning(BCP/DRP); application and network penetration testing (2004-08);

<p>Work History (cont.)</p>	<ul style="list-style-type: none"> • Information Security Coordinator at Emergency Communications for South-Western BC (E-Comm) – assistance with security requirements, including network security architecture, policy design and reviews, Threat/Risk Assessments, mobile and wireless security, IDS deployment, Disaster Recovery/ Business Continuity, VPN's, application security assessments, two-factor authentication, encryption and remote access, password and user management; liaison with Vancouver, Victoria and other police departments, RCMP, BC Ambulance Services, Public Safety and Law Enforcement agencies (2000-6); STRA (2013); • Security Assessment for Stockgroup Systems – Reviewed IT security issues, developed plan for the remediation of high risk findings (2007); similar process for the Comox Valley Airport Authority (2011); • BC Ministry of Human Resources (MHR) – assist with security requirements; liaison with application development, business areas, IT, privacy and other groups; auditing, compliance and investigations; security architecture design and implementation; application security reviews and Privacy Impact Assessments (PIA's) (2000-2); • Wireless surveys, pen-tests and security architecture consulting for Common IT Services (CITS), Ministry of Management Services (2002-2005); Wireless survey for Simon Fraser University (2006); • FortressOne - Security Product Architect for Managed Security Services; designed the company's Secure Operations Center (SOC) and service offerings (2000); • ICBC (Information Security and UNIX Support) – router, firewall and web server/ proxy deployment and administration; security reviews and audits; policy and strategy facilitation; e-business security architecture and implementation (incl. mainframe connection); user and password management (single sign-on and platform migrations); log analysis and consolidation; system hardening; needs assessments and privacy consulting; project management and budgeting; application security reviews; firewall/DMZ deployment and testing; forensic investigations (1998-2000); • Forensics investigations (2010-12); Development of forensics investigation process for Northern Health Authority (2013); Assistance with development of Business Continuity Plans (BCP/DRP) (2006-present); • University of BC (UBC), BC Institute of Technology (BCIT), Mile2 and others (ongoing) – Security course development & training (CISSP, Wireless, Cryptography, Computer Crime, Windows, Privacy, Web Application Security, Disaster Recovery/Business Continuity, Penetration Testing/Ethical Hacking, etc); • Security presentations for various groups including the PIA-BC, CIPS Security SIG, OWASP Vancouver, VaNTUG and VanLUG, Drupal User Group, APCO/NENA, IAFCI, BCIT, UBC, Nexient/Mile2, etc. (ongoing)
	<p><u>June 1997 – June 1998, Technical Specialist, Mainland Information Systems</u></p> <p>Projects included Tivoli Storage manager (ADSM) installation and support (IBM sub-contract), network design and implementation, storage management, disaster recovery, penetration testing, firewall implementations, database administration, and UNIX and Informix support.</p>
	<p><u>November 1996 – May 1997, Consultant, RGC Consulting</u></p> <ul style="list-style-type: none"> • Security evaluation for VanCity Mutual Funds, incl. penetration testing. • Consultant with ICBC, working as UNIX/Internet Security Specialist assisting the corporation's migration from mainframe to client-server systems; firewall penetration testing.
	<p><u>September 1994 – August 1996, Senior Consultant, Q-Data Consulting</u></p> <ul style="list-style-type: none"> • Facilities Manager/Analyst on EIS/Data Warehouse project for warehousing subsidiary of major transport company. Responsible for planning, provision, maintenance, and integration of all computing facilities, sourcing data from legacy systems and SAP/R2 and R3. • Security audit and facilities plan for international insurance company (Allianz).
	<p><u>February 1984 - August 1994, Trainee technical Systems Officer to IT Manager, De Beers/AAC</u></p> <p>Responsible for the planning, provision, maintenance, and integration of computing facilities for the Ore Evaluation Department. Managed an annual budget and lead a staff complement of three.</p>

Training	<p>2013 - Athcon Security Conference (2 days) <i>incl. Windows Exploit Development Course (Corelan) (2 days)</i></p> <p>2012 - ShakaCon Security Conference</p> <p>2009 - Certified Wireless Security Professional (CWSP) (re-certified in 2013) - OWASP AppSec-DC Conference and associated training (4 days) - - European e-Identity Management Conference (2 days) -</p> <p>2008 - RSA Security Conference (5 days) – - Certified Penetration Testing Engineer / Consultant (CPTE/CPTC) (6 days) - - Annual Security and Privacy Conference -</p> <p>1998-2007 - Westcoast Security Forum Annual 1-2-day conference (committee member 2000-4, chair in 2003)</p> <p>2006 - Annual PolCyb (Policing Cyberspace) Conference –</p> <p>2005 - Certified Wireless Network Administrator (CWNA) – - Designing Security in a Windows 2000 Network –</p> <p>2004 – Certified Information Security Auditor (CISA) –</p> <p>2001 - Blackhat Briefings (2 day conference); Defcon9 (3 day conference) - - NT Intrusion Detection and Complete Windows 2000 Security Workshop (1 day each) -</p> <p>2000 - Intrusion Detection Systems, 2 days -</p> <p>1999 - Entrust 4 PKI Administration, 2 days –‘ - Information Systems Professional (I.S.P.) certification – - Certified Information Systems Security Professional (CISSP) certification –</p> <p>1997-1998, various courses and certifications (IBM AIX, ADSM, IBM Firewall, TCP/IP Communications, Internet Security)</p> <p>1984-1996, various courses (UNIX, TCP/IP, Systems Analysis and Design, Organizational Methods and Strategy, Project Management)</p> <p>1983 - Bachelor of Science (Honors) degree in Computer Science/Applied Statistics (4 years).</p>	<p>Athens, Greece</p> <p>Honolulu, Hawaii</p> <p>CWNP Washington DC London, UK</p> <p>San Francisco, USA Tampa, USA Victoria, BC</p> <p>Vancouver, BC</p> <p>Richmond, BC</p> <p>CWNP University of British Columbia</p> <p>ISACA</p> <p>Las Vegas, USA Las Vegas, USA</p> <p>MIS Training Institute, Vancouver, BC</p> <p>Geotrain, Vancouver, BC Canadian Info. Prof. Society (CIPS) (ISC)²</p> <p>IBM, USA/Canada</p> <p>Various Institutions, South Africa</p> <p>University of Cape Town, South Africa</p>
Skills	<ul style="list-style-type: none"> • Sun Solaris, IBM AIX, HP-UX, Free & OpenBSD, Digital Unix & various other Linux / UNIX distributions; • Microsoft Windows, Exchange, Terminal Server/Citrix, MS Office, IIS; Oracle OpenOffice; • Microsoft, VMWare, Oracle Virtualbox and other virtualization technologies; • Security tools like NMap, Nessus, Rapid7 NeXpose, Metasploit Framework, CORE Impact, Cain&Abel, John the Ripper, Hashcat / oclHashcat, Wireshark, McAfee Database Security Scanner, QualysGuard, etc.; Backtrack / Kali and other Linux security distributions; Immunity & other debuggers; • Penetration Testing and Vulnerability Assessment methodologies, incl. OSSTM. NIST and OWASP; • Application security tools like IBM Appscan, HP WebInspect, AppDetective, AppSentry, Syhunt Sandcat, Fiddler / Watcher, OWASP ZAP, Burp Suite, sqlmap, SOAPUI, Parasoft's .TEST (code review), etc.; • Firewalls, including CheckPoint, Cisco, WatchGuard, Juniper Netscreen and Linux IPTables; • Web Application Firewalls (mod_security, mod_evasive, Citrix Netscaler, Barracuda); • Cisco, Nortel, HP and Juniper routers and switches; • Intrusion Detection Systems (IDS) like Snort, Cisco Secure IDS/MARS and McAfee Intrushield; • Wireless security tools like Kismet, aircrack-ng, AirMagnet and InSSIDer; • Security technologies like RADIUS, PGP, VPNs, SSH, Tripwire, two-factor authentication, biometrics, PKI; • Databases, including Microsoft SQL Server, MySQL, Oracle, Informix, DB2, Sybase and Postgres; • Legal, privacy, compliance & audit standards: FIPPA, PIPEDA/PIPA; Breach Disclosure; Canadian Criminal Code; ISO 27001, COBIT; PCI DSS; 	

"2015 December Resume Rui A Pereira.doc" last updated 15-12-2015