Phil Irving

certifications.

613-294-0379

This is my complete list of projects, employers, references, and

Available immediately for permanent employment or contracts.

philirving@live.ca

in linkedin.com/in/phil-irving-15472487

Security **Audit**, 964317 Ontario Inc HST 878523000 RT0001

phil@piSecAudit.ca

19 June 2021

QUALIFICATIONS

✓ CISSP	Certified Information Systems Security Professional (ISC ²) #83263 Oct 2005
✓ CISA	Certified Information Systems Auditor (ISACA) #46595 Oct 2012
✓ COBIT 5	(ISACA) Apr 2015
✓ CSX	CyberSecurity nexus Foundations (ISACA) July 2016
✓ Member of	IIA, ISSA, ISACA, (ISC)2
✓ Expert:	MS Office, Visual Basic for Applications (VBA), AWK and scripts, TeamMate
✓ Strong knowle	dge: COBIT, ISO27001/2 ISMS, NIST 800-series, CCCS ITSG-33 SDLC, and ITSG-22 & -38 Security Zones, plus standards and regulations such as GDPR, PIPEDA / DPA, and CCPA.
✓ Background:	SQL, Audit Command Language, Entrust PKI, ITIL, Risk Management, Governance, Risk & Compliance, SOC2,

- Threat Risk Assessment, Certification & Accreditation, HTML, XML, C+, Java, Perl
- ✓ Computer Science, Bachelor Queen's University, Kingston 1985

LIST OF PROJECTS

Sorted by date (most recent first). Gaps between projects were often spent in training.

Ref	Role	Employee, Project Dates	Highlights
75	Product consultant	Track Assets Enterprises, Jan 2019 – present	<i>Product development</i> –Bringing a new risk management tool <i>Threatalytics</i> to market. This work is ongoing, as a side venture that I pursue on weekends.
74	GRC Policy writer, Programmer	Upwork.com 2019 - present	Successfully delivered small projects to various clients in Canada and USA.
73	Course Instructor	The Knowledge Academy (TKA) Nov 2018 – present	Training IT professionals by preparing and delivering courses on various certification courses, such as EU-GDPR, ISO27001 ISMS, CCSP, CISSP, CISA, CISM, and SQL.
72	Security Analyst	Track Assets Enterprises, Oct 2018 – Apr 2019	Advocated improvements over controls and procedures to close security gaps, by performing Harmonized Threat Risk Assessment.
71	IT Audit Project Leader	Shared Services Canada (SSC) Apr 2016 – Mar 2018	Advanced the provisioning of IT Security services and the protection of hosts and applications, by managing a team of 10 auditors in a multi-departmental audit project.
70	Senior Technology Auditor	NAV Canada 4 months each year (Jun – Sep), 2008 – 2015	Annual GCC Compliance –Enhanced company's ICFR General Computing Controls over span of seven years, by issuing annual audit reports based on a four-month period each year.
69	(see above)	NAV Canada Dec 2013 – Oct 2015	Evaluated, configured, and deployed SharePoint 2013 across the enterprise. Migrated files from network shares (see project 55), and migrated wiki articles from Confluence (see project 66).
68	(see above)	NAV Canada Jan 2014 – Mar 2014	Planned and prepared for performance audit (<i>Routing for Fuel Efficiency</i>) but aborted when it became apparent that controls were not properly designed or implemented.
67	(see above)	NAV Canada May 2013, and annually since then (one month)	Facilitated <i>Enterprise Risk Management</i> with 22 senior executives from all lines of business, to evaluate business risks and improve resiliency.
66	(see above)	NAV Canada Jul 2013 – Oct 2013	Compared ease of use and manageability of keeping records in Atlassian Confluence versus SharePoint 2010. Led to enterprise adoption of SharePoint 2013.
65	(see above)	NAV Canada Apr 2013 – Nov 2013	Change Management audit –Key recommendations streamlined approvals for standard changes, while applying more robust controls for non-standard changes. Gained buy-in from managers and staff for proposed changes.
64	(see above)	NAV Canada Jan 2013 – Mar 2013	ATC Training –During preliminary phase we discovered that controls were not mature (not applied consistently), so the conduct phase was cancelled.
63	(see above)	NAV Canada Oct 2012 – Dec 2012	Evaluated, configured, and deployed <i>TeamMate Audit Control System R10</i> . Migrated report tools from proprietary format in R9 to XML format extracted using XSL in R10 (see project 58).

			Phil Irving p2
Ref	Role	Employee, Project Dates	Highlights
62	(see above)	NAV Canada Feb 2012 – May 2012	<i>Project Management</i> audit –Key recommendations streamlined documents used for gates throughout life cycle, including end of life, and strengthened oversight and governance of projects within project management office.
61	(see above)	NAV Canada Oct 2011 – Jan 2012, plus annual table tops 2013 – 2015	Disaster Recovery audit-Key recommendations led to formal SLAs and annual table top exercises, culminating in testing the response to a prepared disaster scenario. Many improvements were identified and implemented.
60	(see above)	NAV Canada May 2011 – Jun 2011	Reviewed SOC2 report prepared by <i>SalesForce</i> cloud services for a financial application. Lessons learned from this project guided other migrations of applications to the cloud.
59	(see above)	NAV Canada Mar 2011 – May 2011	Corporate Security consultant –Implemented quarterly process for managers to review and approve access by managers, staff and contractors; Excel macros read emails from managers and correlated results, especially where owners had conflicting approvals (see project 57).
58	(see above)	NAV Canada Nov 2010 – Jan 2011	Fact Sheet Reports –Created in-house reports based on proprietary format of data used in TeamMate R9; used for reporting findings during conduct phase (Fact Sheets), and for preparing draft audit reports.
57	(see above)	NAV Canada Feb 2010 – Nov 2010	Physical Access Controls audit –Key recommendations included moving from labour-intensive annual review of access to automated quarterly review, and to upgrade the system that controlled physical access.
56	(see above)	NAV Canada Mar 2009 – Oct 2009	Zone Interface Point audit –Key recommendations led to creating a DMZ in the zone interface point so that the data from operational systems could be made available to business systems.
55	(see above)	NAV Canada Mar 2008 – Feb 2009	Logical Access & Privilege Management audit –Key recommendations included moving from network shares, and better control of elevated privileges by creating Administrator accounts for each Windows staff, and using <i>sudo</i> on Linux. Recommendations were based on ISMS (ISO27002 Code of Practice), CSE ITSG-33 SDLC.
54	(see above)	NAV Canada Dec 2007 – Jan 2009	IT Training for Financial Auditors –Prepared and presented eight seminars to introduce financial auditors to IT (akin to CISSP).
53	(see above)	NAV Canada Oct 2007 – Feb 2008	Tested and migrated database from R8 to <i>TeamMate R9</i> ; wrote user guides on how to use new features.
52	(see above)	NAV Canada Jul 2007 – Sep 2007	Reviewed design of General Computing Controls (<i>ICFR GCC</i>) in financial systems; compared requirements from PIPEDA and PHIPA (Ontario's equivalent of HIPAA) as required by legislation.
51	Team Lead	Public Works and Government Services Canada (PWGSC) Sep 2006 – Mar 2007	Alert Reporting – Tested Perl scripts to send near-real time alerts of high priority activities detected in logs consolidated from applications and servers on three different platforms; wrote Powershell scripts.
50	(see above)	PWGSC Jun 2006 – Dec 2006	Intrusion Detection Systems (IDS) –Implemented Enterasys Dragon NIDS/HIPS to provide near-real time intrusion detection alerts.
49	(see above)	PWGSC Apr 2006 – Jun 2006	Common Criteria evaluation of proposed firewalls and VPN solutions against, prior to acceptance and deployment.
48	(see above)	PWGSC Mar 2006 – Apr 2006	Hardened O/S –Windows 2003 and Linux RHEL servers; incorporated security controls per ISMS, ITSG-33, NIST SP800 standards; kept "golden image" to install on new servers; prepared SOC2 reports.
47	Sr IT Security Analyst	Ontario Ministry of Environment Nov 2005 – Jan 2006	Waste Water Management –Prepared Statement of Sensitivity, Harmonized Threat Risk Assessment, Privacy Impact Assessment, PIPEDA, and PHIPA (Ontario's equivalent of HIPAA); presented findings to client.
46	Sr IT Security Analyst	HP Canada Mar 2005 – Aug 2005	Centralized Security Management –Evaluated six products and recommended BindView; prepared business case for executive approval (purchased after my contract ended).
45	(see above)	HP Canada Feb 2005 – Jun 2005	SOX Audit – Prepared SOX 404 compliance report.
44	(see above)	HP Canada Aug 2004 – Feb 2005	Product Certification and Accreditation – Evaluated network devices against Common Criteria.
43	(see above)	HP Canada Mar 2004 – Aug 2004	<i>CIBC Security Standards</i> –Reviewed Hardware Security Modules (HSM) and Microsoft CA; supported web certificates from Microsoft CA; hardened Windows NT servers.

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Ref	Role	Employee, Project Dates	Highlights
42	(see above)	HP Canada Aug 2003 – Aug 2005	CIBC Security Outsourced Management –Provided support for administration of security on CIBC servers (Windows NT, Linux RHEL, AS/600, and z/OS); wrote Powershell scripts
41	Web Developer	InteGain Corp Mar 2003 – Apr 2003	Knowledge Management –Designed and developed a dynamic web interface (Perl and HTML), and the back-end relational database of keywords (MS-Access)
40	IT Security Analyst	Nortel Networks Oct 2001 – Oct 2002	Entrust Public Key Infrastructure (PKI) –Third-level support, supporting user authentication, digital signing for non-repudiation of transactions, and creating and revoking web certificates for secure socket layer (SSL, aka HTTPS) traffic to web servers.
39	(see above)	Nortel Networks Apr 2001 – Oct 2002	Contivity Extranet Switch (CES) –Provided procedures for first- and second-line help desk in support of client. Prepared and presented seminars on deploying CES.
38	(see above)	Nortel Networks Jun 2000 – Jul 2000	Shasta 1Gbps switch; Alteon load balancer – Performance testing in the lab using test scripts and automated traffic generators. Recommended procedures for maximizing utilization in field.
37	(see above)	Nortel Networks Feb 2000 – Apr 2001	CES Firewall – Worked with Contivity team in Boston to build a firewall engine in new CES; performed alpha and beta tests. Wrote user guide for using firewall contained in CES, exploring possible scenarios.
36	(see above)	Nortel Networks Apr 1999 – Jan 2000	Y2K Upgrades – Evaluated all products used internally by Information Systems to ensure there would be no unforeseen problems; delivered fixes as required.
35	(see above)	Nortel Networks Nov 1998 – Mar 1999	Axent Raptor management interface – Upgraded tool to work with next release of firewall (see project 30).
34	(see above)	Nortel Networks Jul 1998 – Nov 1998	Contivity Extranet Switch (CES) – Acquired through Nortel's merger with Bay Networks, it provided a hardware replacement for the InfoExpress VPN software solution. Decommissioned InfoExpress and converted those clients to use the CES client. Upgraded the first- and second-line support procedures (see project 32).
33	(see above)	Nortel Networks Mar 1998 – Jul 1998	Bandwidth management – Evaluated, tested, and deployed protocols to control bandwidth, including RSVP, QOS, and traffic shaping.
32	(see above)	Nortel Networks Dec 1997 – Jun 1998	InfoExpress Product Support –Provided procedures for first- and second-line of support for Iproduct at national help desk. Provided third-level support, liaised with vendor.
31	(see above)	Nortel Networks Jul 1997 – Nov 1997	InfoExpress VPN Deployment—Evaluated, tested and deployed product as method for remote staff to securely connect to the main office across the Internet. Ensured self-installation executable fit on one floppy disk, for ease of distribution.
30	(see above)	Nortel Networks Feb 1997 – Jun 1997	Axent Eagle Firewalls – Provided tool to manage multiple firewalls from one console.
29	Sr Systems Analyst	Sound Foundation Dec 1996 – Jan 1997	Knowledge Management – Analyzed customer's systems and revised the reference guide to reflect recent undocumented changes.
28	Bid Manager	Bank of Canada Jul 1996 – Nov 1996	Bid Management to Track Trends –Developed Request for Proposals (RFP) and sent to three vendors; compared and ranked results; led to selection of one system (purchased after my contract ended).
27	Sr Systems Analyst	Bank of Canada Apr 1996 – Nov 1996	Tracking Financial Trends – Reviewed business case and requirements; created RFP; evaluated vendors and applications.
26	Seminar Leader	CGI Consultants Feb 1996 – Mar 1996	Agensys Presentations – Prepared and presented seminars to CRA and investors regarding usefulness of the new language, published by Agensys Canada Corp.
25	Technical Writer	CGI Consultants Dec 1995 – Mar 1996	Agensys User Guide –Wrote support manual and user guides for new language, running on Windows NT and Solaris.
24	Sr Systems Analyst	CGI Consultants Jul 1995 – Mar 1996	Agensys Product Support –Created business application using new language as sample of its capabilities. After being instructed by the creator of the language, became second- and third-level support.
23	Project Manager, Programmer	CGI Consultants Mar 1995 – Jun 1995	Smart Card Capabilities –Created application interface to smart cards using provided Application Program Interfaces, to securely store user credentials and financial transactions. Led to federal endorsement of Presto cards used by OC Transpo.
22	Security Analyst	CGI Consultants Feb 1995 – Mar 1995	Animated Computer Based Training (CBT) –Created animated GIFs to accompany CBT, as comparison for time and costs versus filming live action.
21	(see above)	CGI Consultants Nov 1994 – Jan 1995	Disaster Recovery Plans –Created and tested (as table top exercise) the list of tasks to recover from a disaster, as part of Team IBM at

			Phil Irving p4
Ref	Role	Employee, Project Dates	Highlights
20	(see above)	CGI Consultants Mar 1994 – Apr 1994	Security Awareness Training –Prepared and presented seminar on conducting Threat Risk Assessments (TRA) at local conference, based on experience from project 18.
19	(see above)	CGI Consultants Jan 1994 – Oct 1994	<i>Ultrix CMW Certification</i> – Performed deep dive into kernel functions, as part of certification of DEC's Ultrix Compartmented Mode Workstation (CMW).
18	(see above)	CGI Consultants Sep 1993 – Feb 1994	Threat Risk Assessments – Prepared and reported TRAs on two applications for Department of National Defence.
17	(see above)	CGI Consultants Jul 1993 – Aug 1993	<i>Team DEC Bid Preparation</i> –Described security-related portion of work that CGI would perform, should DEC win the bid.
16	Security Analyst	CRA Mar 1990 – May 1993	Security and Access Management –Maintained security controls on mainframe (ACF/2 on MVS/TSO); implemented RSA SecurID tokens for second factor authentication.
15	Sr System Analyst	SNI Nov 1989 – Mar 1990	<i>Patient Safety</i> –Reviewed system to monitor patient safety, and prepared report of recommended improvements.
14	Technical Writer	SNI Jul 1989 – Nov 1989	<i>DIN Monitoring</i> – Updated system manual for drug monitoring program to describe changed features.
13	Teacher (part-time)	Algonquin College Jun 1988 – Jun 1989	Continuing Education – Taught programming (REXX, SQL/DS), system analysis, and database design.
12	Technical Writer	Algonquin College Jan 1988 – May 1988	User Guide for Students – Prepared, wrote and published user guides for students regarding REXX and VM/CMS.
11	System Administrator	Algonquin College Oct 1987 – Jun 1989	Academic system –Supported IBM mainframe used by students, running VM/CMS, SQL/DS, REXX, PL/1, FORTRAN.
10	Sr System Analyst	IBM Canada Jul 1987 – Sep 1987	Application System (AS) –Tested beta version of AS on AS/600 mid- frames; led to several feature updates before release.
9	Sr System Analyst	IBM Canada Apr 1987 – Jun 1987	<i>PROFS Version Development</i> –Wrote REXX programs to add new feature requests to PROFS, to be sold as next version of PROFS.
8	Project Manager	PetroCanada Nov 1986 – Apr 1987	<i>PROFS Upgrade</i> –Led team of 16 professionals across Canada in upgrading versions of the mainframe-based professional office system (IBM PROFS), running on VM/CMS and MVS/TSO mainframes
7	Project Manager	Bell Canada Jul 1986 – Nov 1986	MAID Deployment – Deployed assets management program across Bell Canada offices.
6	Systems Analyst	Bell Canada Jul 1985 – Nov 1986	MAID Implementation – Designed, implemented, and tested the assets management program. Developed and maintained security controls (using ACF/2).
5	Technical Assistant	Queen's U Sep 1983 – Apr 1985	<i>Front-line Help Desk</i> –Helped students debug programs; provided technical support on mainframes, mid-frames, and minicomputers. Maintained APL code for statistical analysis program.
4	PROFS Administrator	IBM Canada Jun 1984 – Aug 1984	<i>PROFS Support</i> – Supported managers and staff in use of Professional Office System (PROFS); provided troubleshooting and new scripts to facilitate their functions.
3	Technical Writer	IBM Canada May 1983 – Aug 1983	ATM User Guide – Wrote user guide for tellers to use Automated Teller Machine (ATM) developed by IBM.
2	Programmer	IBM Canada May 1982 – Aug 1982	PBX Utilization – Measured usage each day and prepared report for management with reasons for atypical peak periods of traffic.
1	Programmer	Hillfield-Strathallan College Jun 1980 – Aug 1980	Administration System – Designed, developed, tested, and deployed system for college administrators.
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Phil Irving

FULL LIST OF EMPLOYERS

Emp	Company	Position	Period
23.	Upwork.com	GRC Policy writer; Programmer	Apr 2019 – Present
22.	Track Assets Enterprises	Product consultant; Security Analyst	Jan 2019 – Present
21.	The Knowledge Academy	Freelance Trainer	Nov 2018 – Present
20.	Track Assets Enterprises	Security Analyst	Oct 2018 – Apr 2019
19.	Shared Services Canada	Audit Project Leader (AS-06)	Apr 2016 – Mar 2018
18.	NAV CANADA	Senior Technology Auditor	Jul 2007 – Oct 2015
17.	Public Works and Government Services Canada	Team Lead, Senior Consultant (Entrust PKI)	Mar 2006 – Mar 2007
16.	Ontario Ministry of the Environment	Senior IT Security Analyst	Nov 2005 – Jan 2006
15.	HP Canada	Senior IT Security Analyst	Aug 2003 – Aug 2005
14.	InteGain Corp	Web Developer – Knowledge Management	Mar 2003 – Apr 2003
13.	Nortel Networks	IT Security Analyst, Entrust PKI Support, Project Manager, Technical Writer, Seminar Leader	Feb 1997 – Oct 2002
12.	Sound Foundation	Systems Analyst – Knowledge Management	Dec 1996 – Jan 1997
11.	Bank of Canada	Senior Systems Analyst, Bid Manager	Apr 1996 – Nov 1996
10.	CGI Consultants	IT Security Analyst, Project Manager, Senior Systems Analyst, Seminar Leader	Jul 1993 – Mar 1996
9.	Canada Revenue Agency	Security Analyst	Mar 1990 – May 1993
8.	SNI (now EDS)	Senior Systems Analyst, Technical Writer	Jul 1989 – Mar 1990
7.	Algonquin College	System Administrator, Teacher	Oct 1987 – Jun 1989
6.	IBM Canada	Senior Systems Analyst, Programmer	Apr 1987 – Sep 1987
5.	PetroCanada	Project Manager	Nov 1986 – Apr 1987
4.	Bell Canada	Systems Analyst, Project Manager	Jul 1985 – Nov 1986
1-3.		Various Summer Jobs	Jun 1980 – Apr 1985

REFERENCES

- Chantal Hewston Internal Audit Principal, Shared Services Canada 03/2016 – 03/2018 (My manager at Office of Audit and Evaluation, Shared Services Canada) <u>chantal.hewston@canada.ca</u>613-402-5629
- Ken MacLeod Director Internal Audit, NAV Canada 02/2009 – 10/2017 (My manager at NAV Canada) <u>Ken.MacLeod@navcanada.ca</u> 613-563-5583
- Robert Taylor President InteGain Corp 03/2003 – 04/2003 (I worked as a sub-contractor) <u>rtaylor@integain.com</u> 416-410-2628
- Bernie Murphy Associate, CGI Consulting 06/2000 – 10/2002 (My manager at Nortel Networks) <u>bernard.murphy@rogers.com_</u>613-435-4043

RATE

Available either as a permanent employee, or as an incorporated contractor. Rates vary according to nature of contracted work. Incorporated as: **pi Sec Audit** 964317 Ontario Inc, HST 878523000 RT0001 www.piSecAudit.ca

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