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PROFILE

Personable, passionate, creative technologist with 30+ years experience in IT, has turned his attention over the past decade to application architecture, front and back end web technologies, project management and leadership.

SUMMARY OF TECHNICAL EXPERIENCE

Languages: JavaScript, PHP 7, HTML5, CSS3, Java, Delphi, Clipper, C

Databases: MySQL 5

Frameworks: React, WordPress, Symfony, CodeIgniter, Angular

Citizenship: Canadian and French **Languages:** Spoken: English, French
Read: English, French
Written: English

- Zend Certified PHP Engineer.
- Sun Certified Java Professional.
- Granted Secret Security Clearance by the Canadian Government.

EDUCATIONAL BACKGROUND

Lindsay Place High School	Science concentration
John Abbott College	Health Science
Concordia University	Bachelor of Computer Science (2 of 3 yrs)

PUBLISHED ARTICLES

- “Text galore: Online shareware not just programs” Toronto Computes! August, 1994
- “Shareware: Beware of vendors with high prices” Toronto Computes! June, 1994
- “Eat My Screen!” The Navigator, Winter 1994
- “Users need shareware education” Toronto Computes! December, 1993

PRESENTATIONS

- [Alfred's Generative Art](#) – Loblaw Digital – 2020 12 02
- [My Twisted Geometries](#) – TWG – 2019 09 27
- [React From the Ground Up](#) – TDUG – 2018 06 28
- [Modern Javascript and Its Tooling](#) – TDUG – 2018 05 31
- JavaScript: The Basics - WordPress GTA - 2013 02 11
- JavaScript for PHP Developers - TrueNorth PHP Conference - 2012 11 02
- JavaScript for PHP Developers - GTAPHP - 2012 10 02
- [Sandbox: Running WordPress on Your Local Machine](#) - WordCamp Toronto 2011
- Custom Fields in WP - [WPToronto presentation - 2010 06](#)
- Lighting the Way with LAMP (PHP/MySQL) - TDUG - 2005 01 05

WORKSHOPS

- Girls Learning Code – Game Making With Scratch – Instructor – 2017 12 09
- Ladies Learning Code – WordPress + Blogging - Mentor - 2017 11 04
- Ladies Learning Code - Intro to WordPress - Mentor - 2017 06 17
- Ladies Learning Code – HTML/CSS for Beginners Workshop - Mentor - 2015 11 14
- Ladies Learning Code - HTML/CSS Workshop - Mentor - 2014 09 27
- Ladies Learning Code - JavaScript Workshop - Mentor - 2013 05 25
- Ladies Learning Code - JavaScript Workshop - Mentor - 2013 03 16
- Ladies Learning Code - WordPress workshop - Mentor - 2012 05 19

PROFESSIONAL EXPERIENCE

- 2019 11 – 2020 12 **Loblaw Digital** (contract)
Position: Senior Front End Developer
Technologies: React, Redux, React-Intl, Sass, Formik, Reselect, Immutable, Jest, Cucumber, Jira, Gitlab, Slack
.worked on the next generation shopping platform, Bronx, which powers some 20 banners
.maintained React/Redux components and their unit tests
.created some end-to-end tests in cucumber
[Letter of reference](#)
- 2019 08 – 2019 09 **TWG** (contract)
Position: Senior Front End Developer
Technologies: React, Redux, Reselect, Styled Components, Split.io, Python behave, Jira, Github, Slack
.Tail end of the Meta project for the Chan Zuckerberg Initiative
.Created some Gherkin tests for the Edit Feed modal
.Implemented a feature flag, using Split.io, to throttle registrations
[Letter of reference](#)
- 2018 11 – 2019 07 **Intuit** (contract)
Position: Senior Front End Developer
Technologies: React, GraphQL, React Intl, Chai, Sinon, Insomnia, Jira, Github, Confluence, Slack, UserVoice
Implemented and documented the UserVoice to Slack feedback mechanism.
Implemented analytics tracking in QBOA (QuickBooks Online for Accountants).
Part of team developing the Books to Tax (aka Work Papers, and Prep for Taxes) workflow in QBOA.
Conceived, designed and documented the sequence mechanism for ordering accounts and groups.
[Letter of reference](#)
- 2018 04 – 2018 10 **Scotiabank** (contract)
Position: Senior Front End Developer
Technologies: ReactJS, Redux, Webpack, HTML/SCSS, Bitbucket, Jira
Part of the agile team developing an internal customer on-boarding app for Caribbean branches, in concert with another agile team developing the back-end REST API.
[Letter of reference](#)
- 2017 12 – 2018 02 **ADP** (contract)
Position: Senior Front End Developer
Technologies: ReactJS, React Router 4, Webpack, HTML/SCSS, Bitbucket, svn, Rally, PhotoShop CC
Designed UI for Interview Wizard, for vetting migration conversion data. Configured webpack for React/ES6/SCSS/SVG workflow, with Hot Module Replacement. Built and styled React components for Data Migration Interview Wizard. Integrated React into existing ASP.NET app. Trained India team on React.
- 2017 08 – 2017 09 **Blast Radius** (contract)
Position: Front End Developer
Technologies: HTML/SCSS, jQuery, Git, PhotoShop CC, WordPress
Created custom responsive templates from comps; integrated with ACF in PHP. Created custom FAQ mechanism in HTML/CSS/JavaScript.
- 2017 03 – 2017 08 **Indigo Digital** (contract)
Position: Front End Developer
Technologies: ReactJS, gulp, node, npm, SCSS, HTML/CSS, Bitbucket, JIRA, Confluence, Flexbox, Omniture

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Involved in the responsification of the main website. Started with the search results page, including the grid and list layouts; created responsive templates and widgets, using React components, for the Ektron CMS; and worked on hybrid pages.

2016 10 – 2017 02 **Corus Entertainment** (contract)

Position: Front End Developer

Technologies: Angular 1.3, gulp, node, npm, CoffeeScript, Stylus, Jade/Pug, HTML/CSS, GitHub, JIRA, Photoshop, SVG, Flexbox

Styled and updated functionality of the Big Brother Canada Season 5 website. Responsive breakpoints for desktop, tablet (portrait and landscape), and mobile.

2015 06 - 2016 08 **[Reddin Global, Inc.](#)** (contract)

Position: Senior Web Developer

Technologies: PHP/MySQL, Symfony, Xdebug, HTML/CSS, Angular, Foundation, SASS, JIRA, Confluence, Bamboo, Bitbucket, AWS, DynamoDB, RDS, CasperJS, Cloudinary, Litmus, BrowserStack, Mandrill, WordPress, Infusionsoft, iMember360, LearnDash, Visual Composer, Slider Revolution, Vimeo, Git

- Part of the distributed team which created a mobile-first version of Reddin's management coaching suite of tools
- Worked directly on StylePlanner report, Job Effectiveness Planner, and Meeting Effectiveness Planner
- Created the e-learning and marketing sites, using WordPress, LearnDash LMS, iMember360 bridge to InfusionSoft, Vimeo Froogaloop API
- Provided user support using ZenDesk
- Documented processes and research results
- Communicated with the business, providing updates on development status

[Letter of reference](#)

2015 04 - 2015 05 **[Architech.ca](#)** (contract)

Position: Senior Web Developer

Technologies: PHP, ISO 8583, JAK8583, cURL

Brought in to this consulting firm to assist on the 4Pay project, virtualizing ATM transactions.

2015 03 **[HennessyHammocks.com](#)** (contract)

Position: Senior Web Developer

Technologies: Shopify Theme Manager, CartJS, RivetsJS, JavaScript, jQuery

Assisted in debugging custom ecommerce functionality. Documented problems and solutions.

2015 02 **[Navantis.com](#)** (contract)

Position: Senior Web Developer

Technologies: PHP/MySQL, CodeIgniter, Javascript, jQuery, Bootstrap, Beanstream

Coded a small ecommerce site (in 7 days), with heavy emphasis on dynamic HTML elements. Interfaced with the Beanstream hosted payment form solution.

2014 08 **[DaveWilsonPhotography.com](#)** (contract)

Position: Senior Web Developer

Technologies: PHP/MySQL, WordPress

Wrote a custom script to migrate over 1000 posts from the no longer supported PhotoQ plugin, to standard WordPress posts.

[Letter of reference](#)

2014 01 - Present **[RadioAlphabet.com](#)**

Position: Front-End Developer

Technologies: Javascript, jQuery, Bootstrap, Angular

A Single Page Application to help users learn the radio alphabet (Alpha, Bravo, Charlie, etc).

2013 10 - 2015 01 **Star Media Group (TorStar)**

Position: **Senior Web Developer**

Technologies: PHP/MySQL, WordPress, Xdebug, Solr, Nginx, AWS, Varnish, Jira, GitHub

Support and maintain toronto.com, desktop and mobile versions.

- Managed migration from offshore to in-house support;
- Upgraded Omniture coverage;
- Debugged and upgraded photo gallery functionality;
- Migrated ads from AdTech to DFP;
- Managed, and motivated participation in, Lunch and Learn program;
- In support of transition from WordPress to CQ5/AEM:
 - Exported content to XML;
 - Documented database and export processes.

[Letter of reference](#)

2013 06 - 2013-10 **Solutions 360** (contract)

Position: **Senior Web Developer**

Technologies: PHP, SQL Server, XML, cURL, SVN, Selenium, GotoMyPC

Interfacing with travel industry XML API's (Thomas Cook and Sabre), to search for hotels, prebook, book and cancel. And the same for cruises.

[Letter of reference](#)

2013 02 - 2013 06 **Proximity** (contract)

Position: **Web Developer**

Technologies: ExpressionEngine, Playa, PHP, MySQL, Javascript, jQuery, HTML5, CSS3, Subversion

Built out the back end of the new Air Hogs website. Had to learn EE from the ground up. Researched best practices, sourced and recommended appropriate add-ons to achieve the requirements. Cloning the AirHogs.com site to achieve similar functionality for SpyGear.com. Launched 2013-04-24: airhogs.com.

[Letter of reference](#)

2012 09 - 2012 12 **Ontario Power Authority** (contract)

Position: **Web Developer**

Technologies: PHP, MySQL, Javascript, jQuery, HTML5, CSS3, Subversion

Security remediation project on the public-facing microFIT website, and its two admin analogues. Addressed a 12 item penetration report prepared by PriceWaterhouseCoopers, including cross-site scripting (XSS) and cross-site request forgeries (CSRF). mymicrofit.powerauthority.on.ca

2012 05 - 2012 09 **Larkin & Co.** (contract)

Position: **Web Application Architect**

Technologies: PHP, MySQL, Javascript, jQuery, HTML5, CSS3

Re-architected the way Larkin codes their solutions, reducing the amount of code, as well as the amount of code that needs to be touched going from one project to the next. This reduces both the amount of time required to generate a new working project, as well as the risk of introducing bugs. [Shim & Metal](#), [Steinman.ca](#).

[Letter of reference](#)

2011 11 - 2012 04 **Myplanet Digital**

Position: **Technical Lead**

Technologies: PHP, MySQL, Drupal, AJAX, JavaScript, jQuery, Linux, Apache, git, PivotalTracker, Jira, PhotoShop, BeanStream, Moneris

Trained on Drupal 6 and 7. Brought changes to Royal Conservatory of Music and Carnegie Hall's The Achievement Program website, as well as Berteig Consulting's WorldMindware site (UberCart). [The Achievement Program](#), [World Mindware](#).

[Letter of reference](#)

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- 2011 04 - 2011 11 **Rogers** (contract)
Position: **Senior PHP Application Developer**
Technologies: PHP, MySQL, HTML5, CSS3, AJAX, JavaScript, jQuery, Linux, Apache, Codelgniter
Support and maintain three intranet web apps.
- 2010 11 - *present* **munchMuch.com** (contract)
Position: **Web Application Architect**
Technologies: PHP, MySQL, HTML5, CSS3, AJAX, JavaScript, jQuery, Linux, Apache, mod_rewrite, SSL
SaaS CMS for restaurants. Conceived the idea; designed the database and framework; coded the app. SSL certificate to protect login authentication and financial transactions.
- 2010 05 - 2010 06 **vpqsci.ca** (contract)
Position: **Web developer**
Technologies: ZenCart, PHP, MySQL, Linux, SSL
Put up VPQ Scientific's ecommerce website. SSL certificate to protect personal information, login authentication, and payment process.
- 2006 11 - 2010 10 **Tucows Inc.**
Position: **Web Application Architect**
Technologies: PHP, MySQL, HTML, CSS, AJAX, JavaScript, jQuery, Linux, Apache, mod-rewrite, Subversion, memcached, APC, Google Mini, WordPress
Project manager and team lead on the Tucows.com redesign project, as well as the butterscotch.com and mobile.butterscotch.com sites. Created a WordPress theme to match the layout of the main butterscotch site. Created the frameworks for PHP and AJAX; including protection from XSS and SQL injections. The sites span multiple physical and virtual servers, and are easily scalable. Produced the documentation, coded large portions of the sites, and managed the QA. Wrote articles detailing improvements to the site to keep the user base informed and engaged. tucows.com, butterscotch.com.
[Letter of reference](#)
- 2006 09 - 2007 10 **CityFax Reporting Ltd.** (contract)
Position: **Web Application Architect, Project Manager**
Technologies: PHP, MySQL, HTML, CSS, Linux, Apache, Subversion, fpdf
Replaced a networked Clipper desktop application with a PHP/MySQL online application, adding significant functionality in the process: \produces PDF reports, which are emailed to clients. Clients can enter their report requests directly, reducing the amount of work the CityFax staff need to do, reducing the likelihood of errors, and increasing customer satisfaction.
- 2006 09 - 2007 02 **Computrack Solutions** (contract)
Position: **Web Developer**
Technologies: PHP, MySQL, HTML, CSS, Linux, Apache, ProStores.com, Blogger.com, phpBB
Configured their ProStores ecommerce presence. Integrated ecommerce solution to a customized phpBB forums implementation, and customized it with a survey in the registration process.
- 2006 06 - 2006 08 **Leisure American** (contract)
Position: **Web Developer**
Technologies: PHP, MySQL, JavaScript, CSS (DHTML), SOAP, Linux, Apache
Developed a custom CMS to support a vacation property rental system (Leisure American), complete with uploading and resizing images and thumbnails, and specials. [Letter of Reference](#).

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- 2006 06 **IMS, Inc.** (contract)
Position: Web Developer
Technologies: PHP/MySQL, PERL, Linux, JavaScript, CSS (DHTML)
Refactored a real estate statistics application. Then added a number of functions.
- 2006 04 **Stromme Media** (contract)
Position: Web Developer/Designer
Technologies: JavaScript, CSS
Created a page with three tabs, each of which had expanding lists of links. Also created a page with a series of products; when the user moused over a product, a panel with supplementary specs would appear next to it. Both of these were to be integrated into a CMS application.
- 2006 04 - 2006 06 **Blue Tree** (contract)
Position: Web Developer
Technologies: ASP, PHP, SOAP, Linux, PEAR::PHPUnit
Converted an ASP application into PHP. As part of the ASP app could not be ported to Linux (Win32 exe), I wrapped it in a SOAP service to access the IIS functionality from the Linux server.
- 2005 12 - ongoing **LPHS Reunion Website** (contract)
Position: Webmaster
Technologies: PHP/MySQL, phpBB, XHTML, CSS, Linux
Designed and developed an interactive site for a high school reunion which allows for registration of alumni, uploading of Then and Now pictures, and updating of profile information. Also provides for single signon between main site and discussion board package (phpBB). Launched Feb. 18, 2006 <http://lphs76.ca>
- 2005 07 - 2006 02 **CSI Global Education Inc.**
Position: Webmaster
Technologies: XHTML, CSS, XML, JSP, ASP, CVS, campaigner.com, HEAT, Dreamweaver 8, Paint Shop Pro 9 and 10, Linux
Responsible for web design and content maintenance, user experience and eblast emarketing.
- hired and managed the Web and Emarketing Coordinator.
- eliminated change request backlog, from 42 to an average of 5 per week.
- identified and implemented a number of significant user experience improvements to the site: FR/EN toggle, JS/browser notification, active breadcrumbs, upsell opportunities.
- implemented and launched the podcast program
[Letter of reference.](#)
- 2005 04 - 2005 04 **Caelestium SoftwareInc.** (contract)
Position: Web Designer/Developer
Technologies: PHP, Firebird, CSS2, Linux
Developed a website to track and rank high school athletes' performance in various events.
[Letter of Reference](#)
- 2005 03 - 2005 04 **Cathay Forest Products Inc.** (contract)
Position: Web Designer/Developer
Technologies: PHP, CSS2, Linux
Developed a bilingual website (English/Chinese) which accepts subscriptions to the company's email alerts, and displays the current share price. The basic page template was designed without tables, using CSS-Positioning. The look and feel, content and business logic were implemented on seperate layers, so each could be modified without affecting the others. This also allows for the easy translation of the content to new languages. [Letter of Reference](#)

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- 2005 03 - 2005 03 **The Telesales Specialists Inc.** (contract)
Position: **Software Developer**
Technologies: PHP, XML
Converted a tab-delimited extract from ACT! to XML format. [Letter of Reference](#)
- 2004 09 - 2005 01 **Immersion Studios Inc.** (contract)
Position: **Project Manager, Technical Lead**
Technologies: Custom CMS (PHP/MySQL), Photoshop, MS Project
Managed the design, budgets, fabrication, deployment and installation of 11 CyberExplorers to various museums across Canada, and the Canadian pavilion at Expo 2005 in Aichi, Japan. Owned the relationships with the museums. Assisted in the selection of a hosting provider for Virtual Canada, and created the infrastructure for the online community. [Letter of Reference](#)
- 2004 03 - 2004 09 **Rogers Wireless, Inc.** (contract)
Position: **National Fulfillment Consultant, Supply Chain Business Analyst**
Technologies: Titan, Vision21, Documentum
Responsibilities: Bilingual dealer support, analysis of defective 3PL processes.
Organized training of order entry clerks for the Direct Fulfillment Activation modification to Vision21. Tracked systems and programming issues with the DF Activation Vision21 modification. Participated in the design of the test scenarios and scripts for a web-based telesales application.
- 2003 01 - ongoing **rentersPlus.com** (contract)
Position: **Web Architect/Designer/Developer**
Technologies: PHP, MySQL, Apache, Smarty, Linux, HTML, CSS, Dreamweaver MX, Paint Shop Pro 8
Responsibilities: Conceived, designed and developed this rental vacancy site dedicated to highly accurate, fine-grained, amenities-based searches for apartments. Designed the framework from the ground up, using best practices from a number of other projects. Launched Jan. 1, 2004. <http://www.rentersplus.com>
- 2003 04 - 2003 10 **3DNA Corp.** (contract)
Position: **Web Architect**
Technologies: PHP, MySQL, Apache, PostNuke CMS, XML-RPC, XUL, Smarty, Linux
Responsibilities: Research and selection of specific technologies and packages to complement various aspects of 3DNA's technical architecture and products.
Developed a custom web-app allowing 3DNA's partners to update their own worlds, keeping track of campaigns and click throughs.
- 2002 12 **Rods'nReels'nThings.ca** (contract)
Position: **Web Developer**
Technologies: PHP, MySQL, eCommerce, HTML, CSS, Dreamweaver MX, Paint Shop Pro 7.02, Linux
Responsibilities: Gathered requirements for RRT's website, and configured an open source eCommerce package to suit, including custom contributions to: allow multiple images per product; connect to Canada Post's server to calculate shipping costs; and, authorize and process credit card transactions through SSL connection. <http://www.rodsnreelsnthings.ca>
- 2002 09 **Tuk-It** (contract)
Position: **Web Designer**
Technologies: HTML, CSS, Dreamweaver MX, Paint Shop Pro 7.02, AllWebMenus 3.0
Responsibilities: Designed, edited and developed Tuk-It's website. <http://www.tuk-it.com>

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- 2002 07 **Miratel Solutions, Inc.** (contract)
Position: Programmer-Analyst
Technologies: Delphi 6, Advantage Local Server
Responsibilities: Designed and developed an outbound campaign application to track calls and callbacks to customers for Miratel's call center. [Letter of Reference](#)
- 2000 **Diamed Lab Supplies, Inc.** (contract)
2003
osCommerce - [2003] Completely redesigned Diamed's e-commerce site based on the osCommerce platform in PHP/MySQL, on Linux.
Delphi 5 – [2000] Designed and managed the development of a databased website generation application, data conversion and input into the database, global update of pricing data, and conversion of database to accommodate another catalog format. [Letter of Reference](#)
- 1996 10 - 2002 03 **Clearnet Inc./TELUS mobility** (contract)
Technologies: Java J2EE, Oracle 7-8, BEA WebLogic, Netscape iPlanet, Solaris, Delphi 1-5, Clipper 5.2e, Advantage Database Server
Responsibilities: At various times acted as developer, analyst, designer and team lead
[Letter of Reference 1](#), [Letter of Reference 2](#)
JSP – Changes to a series of Oracle reports generated through a browser interface. [National Reflash Tracking reports] (Root River Delta Java class library)
Servlets – Designed and implemented the security strategy for the Channel Portal. (Netscape iPlanet, BEA WebLogic Server 5.1, Solaris)
JSP – Designed and developed JSP's for registration and login of the Channel Portal. (Solaris, XML/XSLT)
Delphi 3/5 – Designed and developed the first version, and acted as team lead on the second version of SQLKnife, a problem analysis and solving tool targeted at specific database and network element issues. Plug-in and security architecture allowed only authorized users to use specific functionality and receive auto-updates of plug-ins. (Oracle 8i, Advantage TDataset Descendant)
Delphi 3 – Converted a VB report generation app to Delphi 3. [RptMgr] (Oracle 7.3, Ace Reporter 1.2)
Delphi 3 – Designed and developed a multithreaded, process scheduling and throttling tool to support the collections system. [Schedule Action Module (SAM)] (Atlas from RSI, Oracle 7.3)
Clipper 5.2e – Analysis and design of the conversion of the MobilAir billing system into Clearnet's Analog Billing System (ABS).
Delphi 1 – Designed and developed Usage Graphing app for analog engineering
Clipper 5.2e – Maintained and enhanced the Analog Billing System (ABS), to the point where it was robust enough to require only occasional support. Prior to that, it required two full-time programmers. (Advantage Database Server)
- 1996 06 - 1996 10 **Turtle Island Recycling Co.** (contract)
Clipper 5.2e - Increased performance of various modules and added Bill of Lading capability.
- 1996 03 - 1996 05 **Ontario Ministry of Housing** (contract)
Performed analysis of options for front-end replacement of mainframe financial package.
- 1995 08 - 1996 03 **Ontario Hydro** (contract)
Technologies: Windows 3.1, CA-Visual Objects 1.0b, R&R xBase for Windows, Oracle 7.3
Part of a team which developed a number of Windows-based applications, including Budgeting, Time Sheet Reporting, Executive Information System, Security Maintenance and Chart of Accounts. [Letter of Reference](#)

- 1994 08 - 1995 08 **Tupperware Canada Inc.** (contract)
Technologies: CA-Clipper 5.2d-5.2e, Class(y) 2.0, Blinker 3.01-3.10
Provided technical support for distributors across Canada, especially the French-speaking distributorships in Quebec. Also developed a number of programs for the maintenance of their data, and brought major modifications to their Distributor Management System.
[Letter of Reference 1](#), [Letter of Reference 2](#)
- 1993 07 - 1994 07 **Ontario Ministry of Finance** (contract)
Technologies: CA-Clipper 5.2d, CA-Clipper Tools III, Blinker 2.1 & 3.01
Created and modified a large variety of Clipper applications related to building permits, property assessment and voter enumeration. [Letter of Reference](#)
- 1993 06 – 1993 07 **Ontario College of Art** (contract)
Technologies: CA-Clipper 5.2d, Blinker 2.1
Brought modifications to a human resources application, and documented the database.
[Letter of Reference](#)
- 1993 03 **OCS Command Data Systems** (contract)
Technologies: HP 3000, COBOL II, IMAGE/3000
Brought modifications and bug fixes to a police department application.
- 1992 12 - 1993 02: Ongoing **Metro Advertising Group** (contract)
Technologies: 386 PC, LANtastic, Clipper 5.01a & 5.2a, Blinker 2.0, ProClip 4.0
Conceived, designed and implemented an admail tracking system, to handle distribution, payroll and invoicing aspects of the business. [Letter of Reference](#)
- 1992 09 - 1992 11 **Laidlaw Waste Management Systems** (contract)
Technologies: 386 PC, Toledo Scale Indicator, Clipper 5.01, Blinker 1.5, Grumpfish, Nantucket Tools II, ProClip 4.0
Upgraded a prototype application to serviceability. Redesigned maintenance screens and created new ones. Also interfaced with a scale indicator (to weigh trucks) through the serial port (using Nantucket Tools II).
- 1992 09 **Midas Canada** (contract)
Technologies: 386 PC, Clipper 5.01, Blinker 1.5, BASIC
Wrote a small program to convert non-standard part numbers to corporate standard and update a BASIC parts master file. Had to use low-level file accesses and index determination techniques.
- 1992 07 - 1992 08 **Western Inventory Service** (contract)
Technologies: 386 PC, LANtastic, Clipper 5.01, Blinker 1.5
Started developing a detail design for a new, integrated inventory system. Project suspended due to other business priorities.
- 1992 07 **Toronto-Dominion Bank** (contract)
Technologies: IBM PS/2, OS/2 LAN Manager, Clipper 5.01, Blinker 1.5
Wrote a number of summary reports to help in the development of TD's bid for Central Guarantee Trust purchase.
- 1992 03 - 1992 04 **General DataComm Ltd.** (contract)
Technologies: 386 PC, WordPerfect 5.1, Clipper 5.01, Blinker 1.5, OverLay(), FUNCky
Performed an in-depth business systems analysis and design of a distributed quotation system. Interviewed users in three cities, keeping them apprised of the developments through regular memos. [Letter of Reference](#)

1991 08 - 1991 12 **Legislative Counsel of Ontario** (contract)
Technologies: Olivetti 386/25, Clipper S'87, Various libraries, Blinker 1.5
Brought extensive modifications to a government bill tracking application. [Letter of Reference](#)

1991 02 - 1991 07 **TVOntario** (contract)
Technologies: ALR 33MHz 386, FoxBASE+ 2.10, Windows 3.0
For the Facilities Scheduling system, wrote a Front End Loader (in FoxBASE+) for scheduling requests, coordinated the development of a schedule optimizer, assisted in the selection of a scheduling package and designed a back end reporting system.

Upgraded the Legal Department's office automation with Document Assembly technology.

Wrote a FoxBASE+ system for Business Affairs dept, to track the progress of Productions, Co-Productions and Acquisitions of programs.

Designed and wrote a FoxBASE+ system to track audience response in the form of positive, negative or information calls and letters for each show. Each week the responses were published in a widely distributed memo. [Letter of Reference 1](#), [Letter of Reference 2](#)

1991 01 - 1991 02 **CIBAVision** (contract)
Technologies: IBM PS/2, Clipper S'87, Swap!
Cleaned up a system which had been left incomplete by a previous consultant. Sped up operations by adding indexes, and added functionality as required. [Letter of Reference](#)

1990 07 - 1990 12 **Bell Canada** (contract)
Technologies: IBM PS/2, Banyan Network, IBM Mainframe, Clipper S'87, Blinker, OverLay(), XCOM 6.2
Part of a team which developed a highly integrated, multi-user, distributed telemarketing support package. Personally responsible for one of the four "pricers", as well as the table distribution modules.

1990 03 - 1990 06 **Premier Concrete** (contract)
Technologies: PC, Novell Network, Clipper S'87, ProClip 2.0
Designed, developed, documented and implemented a multi-user, project tracking and reporting system.

1990 01 - 1990 03 **Montgomery KONE** (contract)
Technologies: PC, Novell NetWare, BASCOM 2.0, Clipper S'87
- Designed, cabled, installed and generated a full Novell network.
- Performed maintenance tasks on a BASIC program to estimate the cost of traction elevators.
- Designed, developed and implemented a parts lookup system for Central Stores, a version of which is to be circulated to the branches.

1989 05 - 1990 01 **Roxul Inc.** (contract)
Technologies: PC/386, Novell LAN, dBase III +, Clipper S'87, ACCPAC
- Compiled an existing dBase III+ application in Clipper. Enhanced it with greater integration to ACCPAC, indexed record retrieval and additional reports. Processes which used to take several hours, were reduced to minutes!
- Designed a raw material tracking system. Designed, programmed, documented and installed a Production Schedule Reporting system. [Letter of Reference](#)

1989 03 - 1989 05 **Sancella Inc.** (contract)
Technologies: PC/386, Clipper, R&R Relational Report Writer
Designed, developed and documented a product cost and usage tracking system.
[Letter of Reference](#)

- 1988 12 - 1989 03 **RACAL-Chubb** (contract)
Technologies: HP 3000/950, IMAGE, PowerHouse, MANMAN, FORTRAN, COBOL
Modified the MANMAN manufacturing package to allow for increased functionality of the database. Designed, developed and documented an invoicing system to replace the current batch system. [Letter of Reference](#)
- 1988 06 - 1988 11 **Westcliff Management Services, Ltd.** (contract)
Technologies: HP 3000, COBOL, IMAGE, V/3000, DataVestor
Supported an investment package called DataVestor. Designed, developed and implemented a Closed Position System which interfaced with DataVestor. [Letter of Reference](#)
- 1988 03 - 1988 06 **Northern-Telecom - Bramalea** (contract)
Technologies: HP 3000, COBOL, IMAGE, V/3000
Tested and installed latest version of the AIMS package. Also assisted in various maintenance tasks.
- 1987 12 - 1988 02 **Colgate-Palmolive** (contract)
Technologies: Toshiba 3100, Clipper S'87, ProComm
Designed, implemented, and documented an extract and up/downloading facility for a portable order entry application. [Letter of Reference](#)
- 1987 08 - 1987 12 **Rubbermaid Canada, Inc.** (contract)
Technologies: HP 3000/48, PC-XT, COBOL II, PowerHouse, dBase III Plus, Clipper S'87, Reflection 1
HP - Developed, documented and installed a Supply Order System for the Finance, Accounting, and Distribution Departments.
XT - Designed, developed, documented and installed a data entry front-end for MSA's payroll package. [Letter of Reference](#)
- 1987 06 - 1987 07 **MacMillan-Bathurst, Inc.** (contract)
Developed the general design document for the decentralization of an order entry package, which was to interface with a production control system. [Letter of Reference](#)
- 1987 03 - 1987 05 **Hydro Mississauga** (contract)
Performed analysis and detail design on a payroll data entry system which was to be converted from a UNIVAC to an HP 3000.
- 1987 01 - 1987 03 **Ministry of the Environment** (contract)
Performed the analysis and wrote the general design for a Quality Assurance/Quality Control extension to their Laboratory Information System. During this project, I was promoted to Project Leader and had a programmer under my supervision.
- 1986 02 - 1986 12 **Contracts Various and Sundry** (contract)
XT First Course Software
C Converted a small, educational spreadsheet, written in compiled BASIC on the PCjr, to C on the PC/XT, and cross-compiled it to the Apple IIe.
- HP Data Conversion Services**
Organized system documentation on several systems for this small service bureau. Also developed a number of PowerHouse reports and jobs.
- HP Northern Telecom, Bramalea**
Developed three modules of a billing system in PowerHouse. Including update screens, reports and job streams. Installed a new version of Northern's Purchasing system for their Kingston office; also modified COBOL and PowerHouse applications. [Letter of Reference](#)

HP General Chemical Corporation

Worked on converting the Canadian order entry system (COBOL) for American use, as well as clean up the code.

1984 01 - 1986 01

Northern Telecom - Head Office Business Systems

Technologies: HP 3000/68, COBOL II, VPLUS, IMAGE, KSAM, PowerHouse

Maintained and enhanced the Automated Invoice Matching System (AIMS). Performed general clean-up, established programming standards and supervised programming of Phase II. Assisted in divisional implementations of system. Supported head office users as well as divisional business systems.

1981 07 - 1984 01

The Last Byte, Inc.

(contract)

Carried out a number of contracts on HP 3000 equipment, as well as on micros, for the following companies:

HP **Northern Telecom**
- **General Switching Division**
- **Analog and Radio Transmission**
- **Cable Division**

HP **Comterm**

dBase II **Cornell Trading**

HP **Domtar**

HP **Mussens Equipment**

CP/M **Publiforme**

Analysis **Le Bistro de Julien**

dBase II **D. English Company**

dBase II **Laurentide Press**

1981 05 - 1981 07

Bombardier - Montreal Locomotive Works

Technologies: HP 3000/III, COBOL II, VPLUS, IMAGE

This position included responsibilities of system manager, supervisor (two programmers) and member of a software evaluation and selection committee for an order entry package. I also brought modifications to the MAS-H manufacturing package.

1981 02 - 1981 05

Hay Associates - Toronto, Ontario

Technologies: HP 3000/33, COBOL II, VPLUS, IMAGE, PowerHouse

Maintenance and development work on a remuneration survey system, as well as analysis, development, implementation, documentation and user training of a line drawing program for customer presentations.

1980 05 - 1981 01

Programmex, Inc.

Technologies: HP 3000/32, COBOL II, View, IMAGE, PowerHouse

Developed a number of programs and reports for two public utilities, as well as a full data entry and statistics system for an amateur hockey league.

1979 05 - 1980 05

T.S.C., Ltd.

Technologies: HP 3000/III, BASIC, IMAGE

Developed reports and update programs for a personnel package, as well as some design and development on an inventory system for a lingerie company.

1975 06 - 1979 05

Contracts, various and sundry

- Payroll system, developed at **Cygnat Mini Computers**.

- Teacher's assistant (in BASIC) at **l'Ecole des Hautes Etudes Commerciales**.

- Developed programs for two computer assisted instruction projects at **John Abbott College**.

CONCURRENT ASSIGNMENTS

1986 01 - 1986 04

Seneca College of Applied Arts and Technology

Taught CIS 101, Introduction Computer Information Systems; an entry level course covering all computer fundamentals, including some BASIC programming.

COMMERCIAL PACKAGES

1990 12

PhoneTool: The People-Base Processor

Technologies: PC/386, Clipper S'87-5.2e, ProClip 3.5, Telepathy, OverLay(), R&R Report Writer
A contact management application with the ability to cross-reference each record to multiple categories.

1987 10

typex - Batch Listing Formatter

Technologies: PC-XT, MS-DOS, Turbo C

1987 10

b-days - Yearly Tickler Program

Technologies: PC-XT, MS-DOS, Turbo C

This program reminds users of upcoming birthdays and anniversaries, through a colour-coded time-relative display.

1985 09

DCS - Diskette Cataloguing System

Technologies: Osborne I, CP/M, Aztec C, B+Tree

A program for CP/M computers to organize diskette libraries. Performed the analysis, developed the program (in C) and wrote the documentation.

SPECIAL PROJECTS

TDUG Membership Database - Contact Manager

Technologies: PC, Windows 95, Delphi 1-4, Apollo 2.1, Advantage TDataset Descendant, QuickReports, Ace Reporter

Membership tracking application to assist in my capacity of membership coordinator for TDUG.

bitpad - Graphics Pad Interface

Technologies: PC-XT, Houston Instrument TG 1011, MS-DOS, Turbo C, C Asynch Manager
Developed this program for **Light Construction**, a laser company. It allows users to digitize images for later processing and display by laser! (Also allows for output through the Virtual Plotter)

Virtual Plotter (VP) - Plotter Emulator

Technologies: Osborne I, PC-XT, Epson RX-80, HP 7580B Plotter, CP/M, MS-DOS, Aztec C, Turbo C

In order to experiment with computer art, developed this graphics package which works with either, an Epson printer, or an HPGL plotter. Sample output available on request.

INTERESTS, DISTINCTIONS AND PROFESSIONAL ASSOCIATIONS

- President of Toronto Delphi User Group (TDUG) (1998 04)
- Membership Director for Toronto Delphi User Group (TDUG) (1996 06)
- Webmaster for CDAT (1996) <http://www.myna.com/~cdat>
- WinSIG Coordinator for CDAT (1994-96)
- Editor of CDAT's Navigator Newsletter (1994-95)
- Education Coordinator for CDAT (1993-94)
- CDAT Executive (1991-97)
- Appointed Moderator of the Database Conference on Canada Remote Systems BBS (1990 11)
- Clipper Developer's Association of Toronto (CDAT) (1989 10)
- Elected President of MICROCOZM, the Montreal Osborne user's group (1983 02)
- Member of the Canadian Information Processing Society (1982 10).
- Second place prize at Student Computer Faire - 1976 National Computer Conference, NY (1976 05).
- Editor of the school newspaper (1975 09 - 1976 06).

References available on website:

<http://www.notoriouswebmaster.com/letters-of-recommendation/>,
as well as on <http://ca.linkedin.com/pub/alfred-ayache/0/171/288>