

Alec Wilcox

Enterprise / Solution Architect, Owner Hodegos Solutions

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Profile

Alec Wilcox is a results oriented solution architect with over 15 years of experience in strategic leadership, technical architecture, systems design, development and implementation with strong specializations in Enterprise Java, .NET, Cloud, Platform as a Service, and SOA technologies. Alec has experience working as an architect and delivery leader on a variety of complex Cloud projects, Service Oriented Initiatives and Enterprise Application designs.

For the past eight years, Alec has worked as an architect and technical advisor on various large public and private sector initiatives, and has successfully managed delivery and architecture teams in challenging multi-stakeholder environments.

Education, Certifications and Awards

University of Victoria

B. Sc. Computer Science, Software Engineering Option, 2003 with distinction

itSMF

ITIL Foundations Certificate, 2006

SoftwareAG

WebMethods Integration and BPM Certificate, 2008

Province of British Columbia

BC Driver's License (Class 5), 1996

Sierra Systems

Consultant of the Year Award, 2014

Innovative Solution Provider Award, 2015

Areas of Knowledge

Industries

Justice, Provincial Government, Information Technology, Pensions Administration, Maritime Operations, Software Development, Enterprise Architecture, IT Service Management, ITIL

Core Competencies

Strategic Thinking, Motivating Others, Priority Setting, Presentation, Communication, Information Sharing, Drive for Results, Negotiation, Business Acumen, Building Effective Teams, Customer Focus, Organization, Open Discussion, Innovative Change, Coaching, Decision Quality, Ethics and Values, Professionalism, Integrity and Trust

Key Technologies

Agile and Cloud, J2EE, Azure, .NET, XML, NodeJS, AngularJS, JBoss Fuse, Apache ActiveMQ, Apache Camel, RedHat OpenShift, PL/SQL, T/SQL, WebMethods, Oracle BPEL, REST and SOAP Web Services, MS Office, Oracle Database, Layer 7 Secure Span Gateway, Microsoft SharePoint, HP Service Anywhere, HP uCMDB, Jenkins, FlywayDB, JIRA, SVN, Git, Entity Framework

Relevant Work Experience



January 2016-Present
Hodegos Solutions, Victoria BC
Enterprise / Solution Architect, Owner

Hodegos (pronounced hod-eh-goss) was established in 2016 as an independent IM/IT consulting firm by Alec Wilcox. The name is an ancient Greek word meaning "A guide or teacher" and was selected in order to embody a vision of working collaboratively with clients in order to help guide them on their path to business success.

June 2017 – Present
Hodegos Solutions, Victoria BC
Solution Architect, Crown Lands Transformation, Systems Consolidation and Integration (CLTSCI)
Project on behalf of the BC Ministry of Forests Lands and Natural Resource Operations

This assignment included the review and analysis of the requirements for improving service delivery and optimizing processes across lines of business for Crown Land Tenure Systems along with the creation of the technical architectures, User Experiences, and Services Designs required to implement the solution. In addition, Alec also has the responsibility of managing the development team to ensure the work is completed on time, and is of the highest quality.

In a series of workshops Alec has lead a group of Crown Lands' Subject Matter Experts in guided walkthroughs and elaborate discussions of the proposed user experience that will be developed within the TITAN system to integrate with the NRPP Common Client Service Component. Alec has developed these wireframes in an iterative fashion based heavily on input from the users.

Alec has also been engaged in ongoing design reviews, and documenting dependencies, for integrating common components for Financials within the CLTSCI architecture. Systems are being designed and implemented to abstract critical functions and data validations from presentation layers. Alec has been working with a number of external project teams on this issue.

- Developed wireframes for integrating TITAN system with NRS Common Client Services Component
- Designed architecture for integrating TANTALIS/TITAN systems with NRS Common Revenue Management Component
- Designed REST API for allowing Front Counter BC to submit Land Use Applications through NRS Online Services Application
- Managed mixed team of developers, testers and analysts to deliver several releases of functionality to support the business requirements

Key Business Outcome: Stay tuned, the project isn't done yet!

January 2017 – April 2018
Hodegos Solutions, Victoria BC
Service Designer and Development Lead, Passenger Transportation System (PTS) Project on behalf of the BC Ministry of Transportation and Infrastructure

The PTS Project is intended to develop and implement a modernized, web-based system that acts as a replacement to the legacy PTLs. The PTS Project aims to provide a scalable and flexible, web-based solution, enabling Public Transportation applicants, licensees, the Public Transportation Branch (PTB), and Commercial Vehicle Safety and Enforcement (CVSE) to work from a single IT system, enhancing licensing compliance and enforcement capabilities, and reducing risks due to data corruption and system outages that the legacy system resulted in.

The PTS Project was the first project within MOTI to adopt and successfully deliver Agile methodologies, standards, roles and responsibilities that could be leveraged during other eligible MOTI IMB projects. Through iterative-based requirements elicitation, feature design, continuous development and deployment, and consistent product demonstrations with the project stakeholders, multiple minimum-viable-product releases were achieved that included input from stakeholders, providing incremental improvements to their business processes, and a level of transparency in to the overall project and its progression.

- Provided strategic advice to the Ministry on how to best successfully implement agile methodologies for future projects.

- Delivering lightweight application user interfaces that can be demonstrated and delivered to the client for early feedback that could then be used as part of the application code base.
- Translating business and technical requirements to the developers and guiding the team to ensure the developed code was achieving business objectives.
- Facilitating Sprint Planning, Reviews and Development Scrums to ensure that weekly goals are met, and obstacles are removed.

Key Business Outcome: 5 successful production releases and creation of best practices to further the strategic goals of the Ministry to further embrace agile development

February 2017 – May 2017

Hodegos Solutions, Victoria BC

Enterprise Architect, COS Modernization Evaluation on behalf of the Ontario Court of Appeal

Built on an Ingress database, the Court Operating System (COS) has been the system of record for the Ontario Court of Appeal for over 20 years. Due to the security vulnerabilities and integration challenges with the aging technology, the Court of Appeal for Ontario sponsored a project to consider options for Modernizing COS which included replacement with a SaaS Product, Replacement with a Rapid Application Development Platform such as Microsoft Dynamics, Custom Build, and technology modernization upgrade.

Alec was responsible for providing information on both the custom build and technology modernization options as well as for providing feedback on the SaaS and RAD options. Alec was responsible for the following:

- Development of significant portions of the final report detailing options for creating a custom build
- Presenting technical portions of the report to client stakeholders including the Chief Judge.
- Estimating the costs required for all four options.

Business Outcome: A 4 part report detailing the advantages and challenges of each options, risks and benefits and rough order of magnitude costs allowing the Court to make an informed decision about the future of their IT systems.

April 2016 – March 2017

Hodegos Solutions, Victoria BC

Solution Architect, Service Management Tools and Processes (SMTP) Project on behalf of the BC Ministry of Technology Innovation and Citizens' Services

The vision of the SMTP project is for the BC Public Sector to have cloud based, fully integrated IT Service Management tools and processes, including flexible access and delivery for staff, customers and service delivery partners.

Alec led the Order Management technical team who are responsible for designing the technical solution that will allow all BC Ministries and Broader Public Sector users to submit order requests through the HP ServiceAnywhere SaaS portal. He was responsible for designing the architecture that would ensure that requests would go through all the required financial and technical approvals and would then be routed to the service providers for fulfillment. Finally, he designed the process for communicating with the BC Government Financial authority to recover the cost of services ordered for Government clients, or to initiate billing for BPS users.

- Architected an integrated solution to share information between the cloud based SaaS application, on premise applications, BC Government staff and external service providers.
- Established a DevOps style environment for custom development including integration between GitHub, Jenkins and JBoss Fuse. Investigated how the environment could be further automated through containerization on the OpenShift platform.
- Responsible for designing application level security controls of the cloud SaaS product as well as securing all related integrations.
- Designed a reusable API of services that could be leveraged to integrate with the Corporate Financial Systems for billing, recovery and other financial requirements.

Key Business Outcome: Developed an architecture and technical approach that not only met the project business requirements but could be leveraged for future projects moving forward with common requirements.

April 2002-January 2016
Sierra Systems, Victoria BC
Consultant, Technology Principal and Technology Director

Sierra Systems along with their sister company Sierra-Cedar represents the largest privately held mid-size consulting company in North America with around 1800 consultants in Canada and the US.

Alec held many roles within Sierra that involved him working with Sales, Human Resources, and Delivery Management to help set technical direction and strategy for the company and numerous clients. One of his primary areas of focus was on how to take advantage of emerging technology trends including mobile, social, analytics and cloud computing.

- Created a strategy for embracing Cloud Computing and Platform as a Service.
- Mentored developers and architects to ensure that they are focusing on emerging trends and future growth areas.
- Provided technical sales expertise on several successful pursuits both as a prime contractor and working with partners.
- Assisted HR with the hiring of new talent based on current and desired skills.

Key Business Outcome: Key contributor to winning several million dollars' worth of new and extended contracts. Successful delivery oversight of multiple projects and positioned employer to take advantage of future trends in the areas of cloud computing.

April 2015 – January 2016
Sierra Systems, Victoria BC
Solution Architect and Scrum Master for the Island Dispatch System on behalf of the BC Maritime Employers Association and International Longshore and Warehouse Union local 508

The British Columbia Maritime Employers Association (BCMEA) is the multi-employer waterfront organization, representing approximately 65 ship owners and agents, stevedores, container, bulk and break bulk terminal operators on Canada's west coast, extending from Victoria north to the Alaska border. The International Longshore and Warehouse Union (ILWU) represents the workers responsible for the loading, unloading and checking of cargo to and from vessels, and the storage of goods on the docks and in warehouses.

Alec worked with both stakeholder groups to design and architect a cloud based dispatch system built on the Microsoft Azure platform. Alec was also responsible for the architecture of a responsive, multi-channel, public facing website where the union members could get information about the work picture and current assignments.

- Architected a cloud based electronically assisted dispatch platform.
- Designed a mobile friendly website to allow union members and associates to interact with dispatchers.
- Acted as Scrum Master to ensure backlog was prioritized by business and team obstacles were removed.
- Led and mentored an agile team to incrementally deliver business functionality in an iterative fashion.

Key Business Outcome: Released the first version of the application into production in 10 weeks generating excitement and momentum for the project.

June 2015 – August 2015
Sierra Systems, Victoria BC
Enterprise Architect on behalf of Bilisland and Griffiths Benefit Administrators

Bilisland and Griffiths are a private sector company that provides benefit administration services to a number of clients including the United Food and Commercial Workers of Canada union.

Alec created a roadmap for the organization that documented their current state and provided options and a strategy for modernizing their legacy Oracle Forms application. After accepting many of the recommendations outlined in the roadmap, Alec guided a team of consultants on how to implement improved backups, disaster recovery and had conversations about how to start to move towards the cloud.

- Assisted with the creation of a new development and test environment for their existing Oracle Forms application.
- Provided a roadmap with concrete action plans and strategy for how to achieve their IM/IT strategic objectives.
- Provided consulting services for how to improve source code management, backups and disaster recovery.
- Advised on how to consider a path to migrate portions of their business to the cloud for improved security and resilience.

Key Business Outcome: Several of the items in the action plan were adopted and the client has begun their transition towards a supported IM/IT environment.

April 2007 – January 2016

Sierra Systems, Victoria BC

Enterprise Architect and Trusted Advisor on behalf of BC Ministry of Justice, Information Systems Branch

The mission of the Ministry of Justice is to administer justice, deliver public safety services and programs, lead emergency management and provide legal advice to Government.

Alec has provided IT strategy and delivery support for the BC Ministry of Justice and related branches for over eight years and is considered a trusted advisor. Alec served on the Architectural Review Board for the Ministry and helped ensure that proposed vendor solutions aligned to Ministry and Central Government direction and standards.

- Worked with Ministry and Central Government architects to propose an architectural solution to the problem of Sector Access Management that involves incremental adoption and could be scaled for use in other domains.
- Documented a shared vision of the Justice Suite that is driven by business objectives and is enabled by technology. In addition, the vision was in alignment with current sector and government standards.
- Served on the Architecture Review Board to ensure that the Justice Sector has standards in place for development projects and that projects being proposed or under development are in alignment with these standards.
- Served on multiple Technical Advisory Committees in order to ensure that business, technical and vendor stakeholders are all in alignment.

Key Business Outcome: A comprehensive set of standards and a framework for building applications for the Justice sector that contribute to the broader Enterprise incrementally.

October 2014 – December 2014

Sierra Systems, Victoria BC

Solution Architect on behalf of Oklahoma Department of Corrections

The Oklahoma Department of Corrections (DOC or ODOC) is an agency of the state of Oklahoma. The DOC is responsible for the administration of the state prison system

Alec documented the current state for the Oklahoma Department of Corrections for their Offender Management Solution which was a hodge-podge of around fifty different applications. He helped the client determine their business principles and created a conceptual architecture representing their business vision in order to help guide the replacement of their OMS.

- Described the vision and roadmap for the Oklahoma Department of Corrections (DOC) Offender Management Replacement project.
- Enabled the DOC to achieve strategic business outcomes throughout the phases of the OMS replacement project by providing a decision-making and prioritization framework that aligns to the overall business objectives.
- Developed Application Inventory and Evaluation framework for significant applications in use by the DOC.

- Created conceptual architecture representing business vision containing vendor agnostic building blocks representing business capabilities such as enterprise content management.

Key Business Outcome: The client was very pleased with the work done by the team and is currently attempting to secure funding to begin the incremental replacement of their OMS system.

November 2014 – May 2015

Sierra Systems, Victoria BC

Solution Architect for eIdentification and eSignature on behalf of Corrections Branch

BC Corrections protects the communities of British Columbia through the safe control and behavioural change of adult offenders. They provide correctional services and programs to people 18 years of age or older who are awaiting trial, serving a jail sentence of less than two years, serving a sentence in the community or being held pending an immigration review.

Alec created a technical solution that leveraged the client's investments in biometric search technology for inmate identification and electronic signatures. Alec used HTML5 and JavaScript to seamlessly integrate Oracle Forms with a modern web browsing experience for the fingerprint capture.

- Designed a module to display tombstone information based on a biometric fingerprint.
- Architected a solution to allow a user to electronically acknowledge a document based on their fingerprint.
- Provided Architectural Documentation and oversight to the development team during development.
- Led the development team in implementing the solution.

Key Business Outcome: The team delivered a cutting edge system that was easy to use and integrated with the legacy application with the budget parameters.

January 2014 – March 2014

Sierra Systems, Victoria BC

Enterprise Architect for the Enterprise Architecture Refresh project on behalf of BC Registries Services

BC Registry Services administers and supports the registration of businesses, personal property and manufactured homes.

Alec was responsible for revitalizing the original Enterprise Architecture work that had been completed for the Branch and worked with the business to articulate a business and technical vision along with a set of guiding principles

- Documented the current state of the client's systems and their various interconnections.
- Elaborated a vision and a set of principles to underpin a strategic vision for the branch.
- Articulated the current and future state vision for the IM / IT systems.
- Created a set of prioritized actions to close the gap between the current and future state.

Key Business Outcome: The Client was very pleased with the quality of the report and how quickly it was delivered. Worked with the client to implement a number of the recommendations as outlined.

December 2013 – November 2014

Sierra Systems, Victoria BC

Solution Architect for the Document Processing System project on behalf of RoadSafety BC

RoadSafety BC is responsible for ensuring that the provinces roads are safe by administering a series of driver fitness and responsibility programs.

Alec designed a robust technical service based on webMethods and Kofax aimed at reducing the backlog of applications submitted to the client through document recognition and processing. The solution was designed to be consumable as a service by other government agencies and partners.

- Worked with Ministry architects to design a solution to streamline the processing of documents.
- Architected a platform that can be extended to other business areas within the public safety sector.
- Completed detailed technical documentation of the solution and various interfaces.
- Led and mentored the development team during the construction period.

Key Business Outcome: After the solution was implemented the document backlog was reduced from six weeks to single day processing within 2 months of go-live. The solution is currently being introduced to other stakeholders within the Justice Sector to solve similar problems.

January 2010 – January 2014

Sierra Systems, Victoria BC

Solution Architect for Integrated Corrections Operations Network (ICON) II on behalf of Corrections Branch

Alec was the lead architect of a large team of IT professionals building a system to deliver electronic services to Correction's clients under both custody and community supervision. Alec was involved in the requirements gathering, functional and technical design and implementation of all aspects of the system including the software solution, secure network and secure electronic devices for accessing the services.

- Architected a secure solution to deliver electronic services to Corrections clients.
- Worked to elaborate business requirements and functional designs.
- Led a large team to build the software solution.
- Participated in the rollout of the solution to pilot centers and helped facilitate the process of improving the solution based on pilot feedback.

Key Business Outcome: Successfully rolled out the system to all Provincial Custody and Community locations. The system has experienced significant uptake and has been well received by users.

February 2012 – January 2014

Sierra Systems, Victoria BC

Solution Architect for Inmate Call Control System (ICCS) Integration on behalf of Corrections Branch

Alec worked with the telecommunications vendor to design and implement an API to integrate the call control system with the client's case management solution. The goal of integrating the two systems was to provide provisioning of identity from the source of truth into the call control system to reduce the duplication of information in the two systems.

- Created detailed technical designs for implementation of web services that can be called by phone system.
- Worked with developers implementing services to ensure they were built according to the specification.
- Worked with Telus to design the services that would be required to extend the phone system.
- Facilitated communication between Telus and Corrections to ensure that both sets of services operated together as designed.

Key Business Outcome: Integration of demographics was completed ensuring that data did not have to be entered in two systems and reducing the impact of the phone system roll out.

January 2012 – December 2013

Sierra Systems, Victoria BC

Solution Architect for Court Clerk Desktop (CCD) on behalf of Court Services Branch

Court Services Branch (CSB) is responsible for the delivery of all court administration and security services in British Columbia. The branch provides service to the three levels of court and to the public, ensuring the safety and security of all court participants, the smooth running of court and the timely processing of court documentation.

Alec architected and implemented an HTML5/JavaScript application that is used to record the court proceedings and facilitate the recording and transcription of the official court record. Alec used the strengths of the technology

to meet the client's requirements for a system that can be accessed from anywhere but can also run in an offline mode if required.

- Worked with the business client to elaborate business requirements.
- Participated in service design sessions facilitated by User Experience consultants.
- Architected a system using cutting edge technology that could withstand service interruptions
- Heavily involved in the management of the delivery team.

Key Business Outcome: The project completed a successful pilot and is current being rolled out to Courtrooms across the province. The users found the system to be very intuitive and easy to use and most importantly able to keep up with the fast moving pace of the court room. The CCD project created the platform for a series of other projects using a similar architecture that were implemented by the client.

July 2013 – November 2013

Sierra Systems, Victoria BC

Solution Architect for eCRC Project on behalf of Security Programs Division

Security services help keep British Columbians safe from harm. The province regulates and licenses security services industries to ensure they operate under the highest standards of conduct and accountability. These industries include armoured vehicles, body armour, and businesses and individuals offering security services such as security guards, alarm installers and locksmiths.

Alec helped the Premier of BC achieve her promise of free criminal record checks for volunteer organizations. At the same time, he helped the client modernize the look and feel of their public facing website to a more contemporary style that is accessible on a variety of devices.

- Worked with Security Programs Division to realize the benefits of upgrading their web site which allowed them to not only complete the primary objective but to modernize their technology at the same time.
- Architected a solution for electronic identity verification that integrated with the current Case Management system.
- Created a reusable component that allows for integration with Equifax for third party identity verification.
- Led and mentored the development team and oversaw the successful completion of the project.

Key Business Outcome: The project was delivered on time and was a good news story for the Premier of British Columbia as an example of a promise delivered.

December 2012 – June 2013

Sierra Systems, Victoria BC

Solution Architect for Provincial Court Scheduling System (PCSS) on behalf of Court Services Branch

The Provincial Court of British Columbia strives to serve the public by providing an accessible, fair, efficient and innovative system of justice.

Alec helped elaborate the requirements and participated in the service design of the Provincial Court Scheduling System (PCSS) to help address some causes of lengthy delays in the court process. He also led the architecture effort for the solution and helped the agile development team get started on its implementation.

- Assisted with the gathering of business requirements and process definition.
- Led the architecture effort for this solution and was responsible for the design and documentation to support the client.
- Served as Scrum Master for the team to ensure the backlog was prioritized and the team was not being blocked.
- Served as liaison between client and development team for reporting status and issues.

Key Business Outcome: The PCSS project was successfully delivered and is currently being expanded upon for use by Crown Counsel to allow them to input their schedules into the system in a similar fashion as the JCMs.

March 2010 – January 2012
Sierra Systems, Victoria BC
Solution Architect for e-Court Project on behalf of Court Services Branch

Alec was the principal architect for a multi-year initiative aimed at gaining operational efficiencies and moving towards a common set of architectural patterns. Alec created a reference architecture that helped realize the business vision for the modernization of their technology portfolio.

- Helped establish a baseline architecture for these efficiencies, and ensured that all sub-projects complied with the vision.
- Authored several detailed technical architecture documents for individual projects.
- Planned estimated and sequenced project task and activities.
- Provided status reporting to the client and resolved issues blocking development teams.

Key Business Outcome: The project set the foundation for a subsequent 3 years of funding in order to continue the work that was started due to the compelling vision and baseline framework outlined at the beginning.

April 2007 – March 2010
Sierra Systems, Victoria BC
Technical Lead and Architect for Integrated Corrections Operations Network (ICON) on behalf of Corrections Branch

Alec was the technical lead for the ICON project which improved the day-to-day activities of Corrections Officers, Parole Officers, Case Workers and others. Alec communicated between the various stakeholder groups and development team to ensure that the solution built on Oracle SOA Suite and BPEL technology met all business requirements and functional designs.

- Assumed responsibility for release planning, coordination and implementation.
- Advised the team with respect to best practices and governance for the system.
- Mentored Ministry support staff with respect to how to manage and maintain the technology.
- Served as Lead developer of the ICON system, and was involved in architecting several enhancements to the solution.

Key Business Outcome: The ICON project was successfully rolled out and served as a pivotal turning point in the evolution of Ministry systems away from legacy Oracle Forms applications towards modernized Service Oriented Architecture designs.

January 2002 – April 2007
Sierra Systems, Victoria BC
Application Architect and Lead for the OBTS project on behalf of Connecticut Department of Justice

Through the Criminal Justice Information System (CJIS) Initiative multiple agencies within the State of Connecticut were brought together to better share information. This includes Police, Corrections, Courts, Pardons and Paroles. Together they funded a shared system called the Offender Based Tracking System (OBTS).

Alec was the lead developer for the OBTS project, a J2EE-based repository fed by client source system generated events. He wrote technical specifications for the development team and ensured that all code was built effectively and efficiently.

- Translated technical issues for business stakeholders.
- Managed and supervised junior developers.
- Created and ensured the quality of all written deliverables.
- Resolved obstacles blocking development team.

Key Business Outcome: The OBTS project was considered a single source repository of criminal offender data that is accurate, verifiable, timely, and available to all of the criminal justice agencies involved in all phases of the criminal justice process.

Additional Work Experience

2001

Ministry of Transportation and Highways, Victoria BC
Information Technologist, Information Management Branch

2000

Information and Technology Service Agency (now SSBC), Victoria BC
Information Technologist, GEMS Group

1997

MYRA Systems Corporation, Victoria BC
Application Developer

References

References will be supplied upon request.