

Etienne Bley, BAsC, PEng.

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Work Experience

Mar'16 – present Linewise Aerial Inc. (contract)
Data Architect, Tool Dev. and IT Infrastructure

Architected Paperless Reporting for over 50000 transmission line inspections integrating SSRS, Filemaker, c#, Linux/Python based online GIS database integrated with Vimeo API for dozens of US and Canadian utilities. Options include hardware and 100% cloud-based solutions. Developed algorithms & tools to manage over 480TB of 8K video data for easy indexing and archival/retrieval. Streamlined processes/GB data flow for a cross-Pacific workforce to allow and support work 24/7 for over 6 months. Developed complex algorithms to autocorrelated sets of data without the use of human intervention. Other technologies include VBA, ImageMagik, Xml, SQL, integrating Global Mapper, GPX, KML standards, various video codecs transformations etc. Made 100's hours of tedious work to be completed in minutes by, again, gluing various GIS tools together in ingenious new ways.

Apr'13 – May'20 WSP Group (contract)
Business automation consultant

ROI of over 10x and affected over \$2.6M of savings for Narrows Lake SAGD and other customers over 1.5yrs (and much more over 8yrs) netted by integrating several diverse software technologies. Groups integrated include Engineering, Design (CAD), Finance and Procurement. Developed dozens of everyday-use data integration tools consisting of technologies such as CAD (Bentley AutoPLANT/AutoCAD/ProStructures/In-tools), database (TSQL and SSRS, Crystal Reports, MS Access,) integrated via C#, ASP.NET, jQuery, JavaScript, XML, SharePoint programming and workflows, VBA, AutoCAD and PowerShell / DOS / Lisp command line. Tools are lego-block style and are quick to implement balanced with meeting I.T. standards. Software is aimed to reduce tedious repetitive and error-prone tasks like MTO's to complex AI allowing harvesting and data comparisons from P&ID's and very complex expediting/delivery/scheduling sources.

Nov'04 – present ELB Solutions.com Inc - www.elbsolutions.com
President and entrepreneur

Reducing 1000's of man hours every year for several small to medium-sized businesses via large scale workflow automation tech solutions. Paperless workflows reduce hundreds of hours of tedium and mistakes and assist business with automated reports/direction. Design dozens of databased data-integration tools using Forms (Mac&PC), iPython, ASP.NET, TSQL (stored procs), Java, Groovy, MySQL, Access, Filemaker, Bonita BPM (work flow), Delphi, PHP, JavaScript, AJAX, REST, SOAP, Cocoa C++, custom design, web and custom programing of LAN/WAN networked devices on both Mac, UNIX and Windows and Arduino/rPI. Work with and train customers to understand the systems and understand their needs for implementing future features. Custom design several online tools and payment systems. Host over 30 active domains and advise several small business owners on keeping content up-to-date. Continually maintaining and repair of over 30 workstations (Mac and Windows) and several servers (Mac OSX, Linux, w2008 to w2016). iPhone app development.

Nov'10-Dec'12 Telvent, Calgary, AB
Consultant / Team Lead GUI Designer

Greatly reduced time to get displays to the field from 9 months on first iteration by experienced designer to <8 hours by lower paid staff allowing 100's of Oil & Gas sites to use same HMI/GUI. Led and participated in a crew of 5 to implement database driven HMI template screens for upstream and midstream Control Rooms. Established style guides, documented setup/config/process and interfaced with the customer to organize workflow to ensure accuracy. Programmed with OASyS 7.5 XE (C# VB.NET/TSQL/C++) & BLT(C++ stored procs) using Visual Basic .Net and C++. Config was done via XML, SQL, ADE, Excel and MS Office/VBA. Debugged/analyzed system issues involving field hardware protocol testing/config/debug both off and on-site. Possess H/W wiring experience of meter and compressor stations SCADA I&C as well as protocol connection/debug skills

Jul'04 - Sept'10 K-Nexions Church/ BP Church, Calgary, AB
Associate Children's Pastor and IT management

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Coordinated large teams of dozens of volunteers to carry out weekly programs for teaching kids and equipping families to continue the learning throughout the week. Prepped, designed and hosted weekly programs. To this day, (2020) I still direct 3 events per year for family events up to 1200 people carried out by volunteers – I know how to successfully lead people. See ELB Solutions above for the IT contributions to maintaining secure online access to resources and all IT needs for staff of 12.

May'95 - Oct'04 Nortel Networks

Circuit Designer - Cellular Radio Design

Designed several generations of cellular base station radio technology (including spread spectrum 3G). This included automation of testing (over all conditions) for the purposes of in-depth analysis and design centering. Innovated rapid design and centering analysis tools using Excel, VBA and MS Access. Collaboration with several other multi-disciplinary design teams was critical to the success of our products. Troubleshoot in-field installations. Year previous and 3 prior work terms was in global technical support for the payphone division (prison phone and regular phones). Gathered investigative market research in the vending industry to make use of exiting payphone vending technology

Volunteer Experience

May'07 - today Deer Run Community Association

Former Secretary/Exec (6 years), Director of Ways and Means

Duties have included coordination of large events such as a Children's Xmas/Easter (15+ volunteers), Stampede breakfast, making and training others to do balloon art. IT director.

1998 – present Sunnyside Kidstutute (week long overnight Camp) - Sylvan Lake
Counselor of 7-10 kids each summer for 1 week. Co-created and coordinated the Friday afternoon multimedia and interactive events to match weekly theme.

1998 - Jul'04 Marlborough Pentecostal Church

Directed weekly children's club for 60+ kids with the assistance of over 25+ volunteers. Wrote and taught weekly lessons, liaised with families to influence to make real positive difference in their daily lives, trained 3 core teams of volunteers.

Education

2019- today AI – Convolutional Neural Networks continual learning on Udemy
- they are on par w. graduate level course taken in the past

2003 - today Ambrose University, Calgary, AB
Masters of Leadership and Ministry graduate level course

1998 - 2003 University of Calgary, Calgary, AB
7 of 10 graduate courses in Electrical Engineering - communications

1990 - 1995 University of Waterloo, Waterloo, ON
Bachelors of Applied Science - co-operative work program

Languages/Environments: iPython, Visual Basic/.NET, C++, Filemaker, PHP, TypeScript/JavaScript, Perl, Cocoa (Mac OS objC) on Mac and iPhone, AppleScript, VBA, WSH, Unix shell scripting, PowerShell, Flash and ActionScript, HTML, XML/XSL, SOAP, REST, Assembly (var. platforms), C, extensive Excel VBA, MS Word mail merge applications, many other automation tools

Operating Systems: Windows server 200/8/12/16, Windows, Mac OSX 10.3-10.6, Mac OSX Server 10.4 and 10.6, Various Unix platforms, Arduino

Databases: TSQL, SSRS, Filemaker, MySQL, OASyS DNA iSQL, Access, XML