# MICHAEL L. GILBERT

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## Summary of Experience

A skilled Information Technology professional with an exemplary background in Application Architecture and Development.  Worked effectively with corporate teams to develop Windows and Web based solutions. Additional computer consulting experience with a diversified group of small businesses developing software to assist in all aspect of business operations.  Extremely innovative and intelligent with Masters Degrees in both Chemical Engineering and Computer Science.

## Technical Skills

ASP.NET, Web services, Window and Web forms, C# 5.0, MS Visual Studio 2013, Javascript, C++ with COM, Object Oriented Programming, SQL Server and Reporting Services 2012, MS Access, LINQ to SQL, NHibernate, NUnit, TortoiseSVN, Ext.NET, DevExpress.NET,  Kalitte Dynamic Dashboard for ASP.NET, iTextSharp PDF, Resharper, XLST, TSQL, XML, HTML5, MVC 5.1, EF 6, Azure, Razor 3.1, SVN, GitHub

**1984 to**    **Independent Contractor, Evanston, Illinois**
**Present**    *Provides application development services to small businesses*
- 〉 **Real Soda Midwest:**  Developed a web site for the customer, inventory and customer-specific pricing.  First phase is for administrative and internal use.  Later phases will be for customers.  Web site developed with Visual Studio 2013, C# 5.0,  MVC 5.1, EF6, Azure, Razor 3.1 and HTML5.
- 〉 **Lustig Jewelers:**  Developed a system for the cash register, customer management, appraisals, email campaigns, inventory, repairs, and layaway accounts.  Completed a rewrite of the system as a Windows application using Visual Studio 2010, C# 4.0, Linq to SQL,  SQL Server 2012 and Reporting Services 2012.  The project went into production in November, 2013.
- 〉 **Accumem:**  Developed a medical imaging system for publications and conferences.  Features included a photo album interface, image editing and screen saver.  The Windows program was written in Visual Studio C++ with the LeadTools image library.
- 〉 **BedMart and US Electric:**  Developed MS Access/VBA system for order entry, invoicing, inventory and customer management.

**2011 to**    **Application Architect and Developer, Market6, Deerfield, Illinois**
**2012**    *Market6 provides the information, predictive analytics and forecasts necessary for retailers and their suppliers to improve category management, operations, and supply chain effectiveness.*
- 〉 **Vendor Management System:**  Developed an internal web site for analysts to identify the parent corporation for the millions of products sold in supermarkets.  The default parent is identified by the manufacturer in the Universal Product Code.  However, due to mergers and brand sales this is correct in only 75% of the cases.  The web site provided the means to quickly scan, filter and sort through tens of thousands of items and identify a family of brands that belong to a different parent.
- 〉 The system was originally written in Visual Studio 2010 C#, Linq-to-SQL, MS SQL Server 2008, and Ext.NET.  The user interface was rewritten in DevExpress .NET for the final product.
- 〉 **Operations Console:**  Rewrote the display as a web application using Ext.NET, Kalitte Dynamic Dashboard and Linq to SQL.  The status of a each of the 8 nightly data transfer sequences was displayed in a window which independently refreshed at a rate set by the operator.

**2006 to**     **Application Architect and Developer, <u>Baha'i National Center</u>, Evanston, Illinois**
**2011**       *The National Spiritual Assembly oversees the administrative affairs of the Baha'is of the United States and provides guidance for their spiritual and moral development.*

⟩ **Membership:** Developed a database of all Bahai's in the United States (around 200,000). Included is address and contact information, a time line of spiritual advancement, and record of participation at local, regional and national levels as well as Pioneering. The system was written as C# ASP.NET Web application with a Web Service and SQL 2005 on the back end. System access rules were based on roles by office and position.

⟩ **Security:** Modified and enhanced the ASP.NET Membership for use by all of the Baha'i programs for roles and forms authentication.

⟩ **Budget:** Developed a web site for groups to enter the budget by activity. The Treasurers Office was then able to get PDF and Excel reports of the budgets at the activity, department, division and overall levels by month or by general ledger category.

**1981 to**     **Application Architect and Developer, <u>UOP LLC</u>, Des Plaines, Illinois**
**2006**       *A $1.2 billion company wholly owned by Honeywell International involved in research, development and supply or process technology and specialty products for the petroleum, petrochemical and gas processing industries.*

⟩ Wrote several engineering estimation and design calculation systems in C# and VB.NET with the data stored in XML documents (2005-2006).

⟩ Integral member of a team assigned to develop a web based system which acquired data from oil refineries through the internet, stored the data in MS SQL Server and performed a series of calculations and simulations to determine the performance of the refinery (2004-2005).
  ○ The system was developed in C# and VB.NET and utilized XML and XLST.

⟩ Designed a Units of Measurement Conversion component in C++ and COM. Rewrote it as a Class Library in C# and .NET (2004-2005).

⟩ Developer and architect for *Aspen Zyqad*, a commercial engineering design product (2001 – 2004).
  ○ Responsible for the Excel Bridge (stored templates for data interchange between the database and Excel). Engineering tool designers configured Bridge templates for calculations and reports for each type of equipment in the refinery. Process engineers associated the templates with the equipment objects and executed them as part of the design work process.
  ○ The system was written in C++ and COM with data storage in XML format in a MS SQL Server 2000 database.

⟩ Performed the roles of developer, architect and team lead for a large in-house engineering database (1993-2001).
  ○ A refinery design was stored in a user configurable equipment oriented database objects. The initial data was imported from simulation software. Detailed design calculations were performed using Excel templates. The final specifications were created using Excel and Word templates.
  ○ Team leader for various threads of the project including the Simulation Lader, Units of Measure Conversion, Methods (Excel and Word interface to the database), Item Editor (gridview editor for equipment objects), Performance Enhancements, Case Management (including a redesign of the object database), and Contractor Data Delivery (XML data export of an entire project).
  ○ The distributed system was written for Windows and utilized C++, OOPS, and ObjectStore OODBMS.

**EDUCATION:**

Masters Degree – Computer Science
DePaul University, Chicago, Illinois
4.0 GPA on 4.0 Scale

Masters Degree – Chemical Engineering
University of Delaware, Newark, Delaware
Dow Chemical Fellowship

Bachelor of Science - Chemical Engineering
University of Illinois, Champaign, Illinois