

**Submitted By: Jeff Oliver, RCR, LLC., 832.258.1367**

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Houston, TX

**TECHNICAL SKILLS:**

<b>Programming Languages:</b>	C#, T-SQL, XML, C, C++ Procedural, C++ OOP, FORTRAN, Visual Basic, and Visual Basic for Applications.
<b>Databases:</b>	T-SQL Server 8, 10, 12, 14, 16, and Azure, Oracle, Microsoft Access, Various other databases including proprietary.
<b>IDEs:</b>	Visual Studio.NET, VAPS object-oriented C++ avionics, Qt/Tcl, gVim. Visual Studio Online, Visual Studio 15.0. Visual Studio 13.0, Visual Studio 12.0, Visual Studio 10.0, Visual Studio 8.0.
<b>APIs:</b>	Most components of .NET
<b>Design:</b>	UML, Object-Oriented Development and Real-time systems.
<b>Web Technologies:</b>	ASP.NET, HTML5, VBScript, Jscript, JQuery, JSON, Ajax, ASP.NET, XML, XAML, SOAP, MVC, Web Services
<b>Programming Technologies:</b>	.Net WinForms/WPF, Embedded real-time, COM, Client/Server, and SharePoint.
<b>Operating Systems:</b>	VxWorks, Windows, Linux, UNIX
<b>Design Patterns and Tools:</b>	MVVM, MVC, Inversion of Control, Entity Framework, and most of the common patterns.
<b>Development methodologies:</b>	Agile, Waterfall

**EXPERIENCE – Due to career platform switches and employment layoffs my true skill level is midlevel**

**ENERFLEX INC.**

07/2014 - 03/2016

Software Developer

Successfully drove project through phase one when failure seemed inevitable.

- C# is the targeted language with WPF and WinForms as the user interface
- XAML, XML
- .net framework with C# algorithmic library comprised the architectural foundation
- Ported C++, and Access database to C#, WPF, and T-SQL Azure database
- Visual Studio 2010, 2012, 2014, and 2015 were used in the course of development.
- Employed Versions 4.0, 4.5, and 4.5.1 of the .net frameworks.
- Employed T-SQL Server Versions 2012, 2014, and 2016, and T-SQL Azure.
- Deployed SQL Server databases to Azure Cloud based resources which required identity management configurations and proper management of database secure access.
- 3<sup>rd</sup> party libraries employed were Xceed WPF toolkit and PDFTron.
- Utilized the support features for WinForms and WPF to manage data materialization on the UI.
- Managed the display of help files, windows, and pages supporting fixed and flow document form layouts with AvalonDock features.
- Created a unique suite of functions and UI properties to automate P&ID generation
- Used The Xceed WPF toolkit to facilitate an interactive and intuitive interface.
- Used custom IType editors on properties supported by the Xceed property grid to enable very flexible and fluid property responses to user inputs.
- Integrated T-SQL Azure to allow enterprise level management of data
- Ported an in-house library of mathematical algorithms from C++ and VBA to C#.
- Used Async/Await multi-threading capability for process synchronization
- Used other mutli-threading functionality for routine work such as file and DB processing.

- Enhanced the in-house algorithms with new mathematical functions such as a system balance pressure calculator.
- Used Ariel and HySys Automation libraries for data transformation.
- Researched converting front end technology from WPF desktop to WPF Web
- Which was to include ASP.NET, MVVM with JavaScript type libraries with REST services

#### **GEOCONTROL SYSTEMS**

07/2013 - 5/2014

##### Information Architect

- Supported and enhanced web application conducting human health research for primarily human spaceflight.
- Implemented requirements for a public web site.
- Support and enhanced T-SQL Server 2012 database.
- Utilized ASP.NET, HTML5, XML, JavaScript, jQuery, Ajax, JSON, ASMX SOAP web services, C#
- T-SQL Server 2005/2008, .net/asp.net, and Visual Studio 2012
- Managed hosting on secure Windows Server 2003 platforms employing IIS 6.0 and all tiers of security and permission protocols as well as integrated SharePoint features

#### **REALTIME OILFIELD TECHNOLOGY**

4/2013 - 6/2013

##### Software Engineer Contractor

- Utilized WinForms, WPF, VISUAL Studio 2010, C#, .Net, XAML, T-SQL Server 2008 to develop a prototype charting system for all types of oil field real time and logged well data telemetry in the form of WITSML.
- XAML, XML

#### **WEATHERFORD INTERNATIONAL**

3/2012 - 4/2013

##### Software Engineer Contractor

- C#, WinForms/WPF, and .net comprised the architectural framework
- XAML, XML
- Contributed to Weatherford's Geoscience Research and Development organization tasked to develop a well planning tool. Focus is on analysis of formation and trajectory survey points to optimize tool choice, directional, and overall efficiency for drilling operations.
- Data transformation processes from WITSML input.
- Provided software engineer development, test plan implementation, and generated documentation.
- Participated in development environment consisting of a multi-tier MVVM framework that uses Entity Framework, WPF, XAML, and T-SQL Server.
- Utilized Visual Studio 2010 as the primary development interface while employing a number of add-in libraries such as Infragistics, Expression Blend, log4net, and Tonga
- Ported Oracle 10g database data and functions to T-SQL Server stored procedures

#### **SENSOR DESIGN GROUP - Houston, TX**

12/2010 - 8/2011

##### Software Engineer

- Performed software maintenance/new development of a real time multi-threaded high data throughput pipe testing in-house application called DigiPro
- Used Visual Studio 2008, T-SQL Server 2008 and C#, and XML.
- Utilized WinForms/WPF for UI development.
- Employed 3<sup>rd</sup> party controls libraries ComponentOne and National Instruments with WinForms functionality to create graphs and charts to display high data flow generated by electromagnetically driven digital sensors for flaw detection testing algorithms.
- Conducted research with several tools to enable message passing within the applications distributed system architecture. MSMQ was examined and appeared to be the best mechanism available given the potential costs of implementation

**UNITED SPACE ALLIANCE** - Houston, TX

01/01 - 10/10

Software Engineer / Systems Analyst

- Processed diagnostic information from the International Space Station multiplexer / de-multiplexer hardware configuration.
- Performed development and peripheral testing for Caution & Warning Summary functions which track anomalous shuttle or station behaviors.
- Developed / tested software in the Software for Orbital Consumables in multi-threaded Real time for Atmospheric, Thermal, and Electrical Systems area using C.
- Supported two major GUI applications and the multi-threaded DLL's for the system, Mechanical Systems, Electrical and Power Systems Analysis, and Command & Data Handler Systems.
- Ported C based applications from DEC Alpha systems to HP Linux.  
Performed software development of GUI applications using C for the Space Shuttle GPCs (General Purpose Computers).  
Designed / developed multiple Visual Studio 2008 / T-SQL Server 2005 applications using C#.
- Added functionality to the server processes using Xt, Motif developer interface and C language in the Command and Data Handler Systems area

**CIMARRON SOFTWARE** - Clearlake, TX

6/1999 - 1/2001

Software Programmer/Ground Control Officer

- Supported Mission Evaluation Room software using C client/server design principles.
- Performed system administrator duties in support of missions.
- Worked as a Ground Control Officer for Space Shuttle and Space Station missions.

**LOCKHEED MARTIN** - Fort Worth, TX

6/1997 - 6/1999

Analyst

- Software development using the JOVIAL object-oriented multi-threaded embedded language for the F-16 Fighting Falcon.
- Developed cockpit displays for the crafts' Multi-Function Display Units.
- Primary area of expertise was symbology (e.g. radar/infrared acquired objects).

**TEXAS TECH UNIVERSITY** - Lubbock, TX

01/1994 - 06/ 1997

Research Assistant

- Developed Access Database programs while designing and implementing peer-to-peer workstations for the Texas Tech University Intramural Sports System.
- Provided GUI software using Visual Basic for Army sponsored experimental psychology project testing man/machine interfaces in combat situations.
- As a student worked as a software developer for IBM doing multi-protocol networking software in the C language.

**EDUCATION:**

**TEXAS TECH UNIVERSITY** - Lubbock, TX

Master of Science in Computer Science - 2001

GPA: 3.0 Emphasis on software engineering & process

**EASTERN NEW MEXICO UNIVERSITY** - Portales, NM

Bachelor of Science in Computer Science – Honors Graduate - 1993

GPA: 3.5 Emphasis on software theory and development lifecycle

Minor in Mathematics and MIS

**TOPEKA TECHNICAL COLLEGE - Topeka, KS**

Associates Degree in CIS GPA: 3.8

**PERSONAL PROJECT**

03/28/2016 – Present

Software Developer

Co-captain of an online Chess team on a site with 22,000 players. The project involves development of an automated system for setting team matchups

- C# is the targeted language with Views and Controllers, Routing, and Models as the supporting infrastructure
- MVC is the primary design pattern used for proper architecture implementation
- Entity framework is utilized with the repository pattern used to properly de-couple the SQL Server backend from domain logic and UI
- Visual Studio 2015 Community is the development environment support with test logging systems of Log4Net and Microsoft Practices Enterprise Library

**SECURITY CLEARANCES**

- Formerly acquired a secret level security clearance.
- Passed Homeland Security Presidential Directive/Hspd-12 clearance 2008 conducted by NASA JSC, Houston
- Certified Identity Theft Risk Management Specialist.