[**Walt@WeAreUSS.com**](mailto:Walt@WeAreUSS.com)

**Cell:**  614-537-4013

***EDUCATION***

**Youngstown State University**

Youngstown, Ohio

**Bachelor of Science degree**

**Major:**  Computer Science

**Minor:**  Mathematics

**Minor:**  Management Information Systems

***SKILLS***

***Software Engineering Competencies:***

**Solution Types**: Web Applications, Web Services, Windows Applications WPF, Windows Services,

DLLs’, Embedded Systems, Authentication & Authorization, Design Patterns

Cryptography

**Packages:** Visual Studio 2017, Visual Studio Code, Razor, Bootstrap, Kendo UI, SignalIR, Splunk

Knockout, Modernizer, Web Profile Builder, Epic MyChart, NopCommerce, LabVIEW

Infragistics Telerik Rad Controls, IdentityServer3, Serilog, ReSharper

**Programming:**    C#, C, JavaScript, JSON, JQuery, Generics, LINQ, WCF, Angular2v6, TypeScript, MVC, Node.JS, React.js, AJAX, Entity Framework, Dependency Injection, Unity, VB.net, VBScript, PowerShell, ASP, XQuery, XPath, XSL, XSLT, HTML, CSS, XML, SOAP, DTD, SVG, WPF, Pascal, FORTRAN, PL1, RPG

**Test, Build & Deploy:** Nunit, Moq, Machine Specifications, ShiPro, TFS, BuildMaster, Harvest, Git,

Stash, Jenkins, TeamCity, Octopus Deploy, JIRA

**Databases:**   SQL Server *(All)*, Oracle

* Administration (SOL Server installation and management)
* Tuning (Profiler, Query Analyzer)
* Stored Procedures (dynamic)
* SSRS – Reporting Services
* SSIS - DTS Packages (also dynamic .pdf creation)
* Oracle Packages with piping, Toad

***Recognition:***

**Time Magazine 2006 - *“****Person of the Year”*

***Certifications:***

**MCP - .**net XML Web Services Developer ***(Microsoft Certified Professional)***

**MCP -** .net Web Application Developer  ***(Microsoft Certified Professional)***

**MCP -** .net Windows Application Developer **(*Microsoft Certified Professional)***

**MCAD – Microsoft Certified Application Developer *(Includes all of the above)***

**NOTE:** All of the above were obtained in C#; I am equally proficient with VB.Net

***Engineering:***

 Domain creation and management. *(I host my own virtual domain server)*

Exchange Server *(I host my own virtual email server)*

 Database Server *(I host my own virtual database server including Git & TFS)*

 Understanding of LAN and WAN design and implementations

 PC hardware installation and maintenance

 Web site hosting – *Site hosting*

 Embedded systems communication protocol design - TCP/IP

***WORK SAMPLES***

* C# ,MVC, JavaScript, Ajax, CSS, LINQ, Razor, Bootstrap:

Additional Interest

<https://drive.google.com/open?id=1vqZYqcOf-Aijy9VoYpO9fSI650hyaNIq>

Sudoku Board

<https://drive.google.com/open?id=1MuqB6OGxFxVCL8jhMaeJkvuPyyR7Lb57>

***EXPERIENCE***

## **Unified System Solutions Ltd. (USS) -** North Royalton, Ohio

(My Company)

2001 – Current

**Unified System Solutions** (Employee) (North Royalton, OH)

* Developing web based, Entity framework backend, drop-in software package for clubs including management and membership interfaces. Implementing through MVC, node.js and angularJS.
* Developing NopCommerce websites for several clients.
* Design and implementation of a remote system of monitoring and adjusting electronic measurement equipment for research laboratories using VISA.
* Relearning Linux using VirtualBox-Kali Linux focusing on penetration analysis and prevention.
* Developing Windows desktop *WPF* application for glucose monitoring devices which communicate via Bluetooth and USB through HMI libraries.

**Environment:** C#, Visual Studio, SQL Server, MVC, JavaScript, angularJS, node.js, Bootstrap,

NopCommerce, Kali Linux, Entity Framework, Razor, JSON, Ajax, LINQ, VISA,

VirtualBox, Dynamic Linked Libraries, Dependency Injection(Unity), WPF

**Communication Types:** GPIB, RS232, RJ45(TCP/IP), USB, HMI

**Equipment Types:** function generators, network analyzers, spectrum analyzers, multi-meters, etc... .

Contracts

(My Clients)

4-19 to 10-19

**eLead Corp.** (Contract – CRM Package) (Cleveland, OH – Remote to Destin, FL)

* Augmented automotive software solutions custom customer relationship CRM, BDC, Marketing, and service operations management sales package.

**Environment:** C#, VS 2017, Entity Framework, HTML5, TFS Cloud, Git, nUnit, Moq , JavaScript, Ajax, LINQ, Dynamic Linked Libraries, Class Interfaces, Bootstrap, Web API, , SSRS, MVC 5, razor, JSON, JQuery, XML, Chrome Debugger, SQL Server 2014 : tables, views, stored procedures , functions, and triggers, Generics, CSS

11-18 to 4-19

**Ectobox Corp.** (Contract – CRM Package) (Cleveland, OH – Remote to Pittsburgh, PA)

* Augmented custom customer relationship management sales package.

**Environment:** C#, VS 2017, Entity Framework, HTML5, TFS Cloud, Git, SQL Server 2014: tables, views, stored procedures , functions, and triggers, Javascript, Ajax, Linq, Dynamic Linked Libraries, Class Interfaces, Kendo Controls, Web API, Bearer Tokens, OAuth, SSRS, MVC 5, razor, Windows Services, JSON, JQuery, XML, Chrome Debugger, Generics, CSS

5-17 to 8-17

**PoleZero Corp.** (Contract – Embedded Systems) (West Chester, OH)

* Designed and created Virtual Instrument Software Architecture (VISA) communications capabilities for legacy General Purpose Interface Bus (GPIB) library (DLL) stack employing SCPI commands.
* Implemented automated discovery of electronic test equipment like: function generators, network analyzers, spectrum analyzers, etc... .
* Developed automated discovery for classification and implementation of IVI driver controlled PXI electronic test equipment.
* *This work was directed to fulfilling a DOD contract designated to sonobuoy anti-submarine warfare devices and other Department of the Navy narrow band communications interfaces.*
* *These high risk tasks were expected to be delivered after an initial six month term. I was able to deliver these solutions well before the client expected; hence the short term of this engagement.*

**Environment:** C#, Visual Studio, Dynamic Linked Libraries, Class Interfaces, SCPI Commands,

Virtual Instrument Software Architecture (VISA) Interface, Dependency Injection

**Communication Types:** GPIB, RS232, RJ45(TCP/IP), USB

**Equipment Types:** function generators, network analyzers, spectrum analyzers, multi-meters, etc... .

8-16 to 10-16

**Personal Time Off**

* Attending Sailing Classes & Celestial Navigation (self-taught)
* *Obtained Captains Certification for sailing vessels over 40 feet.*

**Environment:** Sun, rain, great lakes, stars, wind, sails, sheets (ropes), knots, sextant, charts

6-16 to 8-16

**MRI Software Corp.** (Contract – Authorization & Authentication Web Apps.) (Solon, OH)

* Designed and created several potential IdentityServer3 API systems as potential candidates for several in house, real estate related software products.
* Created interfaces for MVC, ASP.Net Identity, angularJS interface as well.
* *MRI, being a global enterprise, ultimately decided to deploy RSA, an “off-the-shelf” “pay-per-use” solution, which was more globally acceptable for their API security.*

**Environment:** MVC 5, razor, JavaScript, angularJS, JSON, JQuery, Entity Framework,

SQL Server 2008R2, Tokens, Bearer Tokens, IdentityServer3, OWEN,

Katana Middleware, OAuth, Serilog, Dependency Injection, SSL, X509Certificates,

Visual Studio, C#

12-15 to 6-16

**Marathon Petroleum Corp.** (Contract - Web Services & Web/Windows Applications) (Findlay, OH)

* Augmentation of and creation of various systems for data consumption and presentation of petroleum pipeline “pig run” (*pigs are instrument clusters sent through pipelines*) data captures.
* Augmentation of and creation of various systems associated with the inspection and maintenance of pipeline infrastructure and architecture.
* Google Earth pipeline mapping.

**Environment:** MVC 5, razor, javaScript, Knockout JS, WPF, JSON, JQuery, Entity Framework,

SQL Server 2008 R2, SMTP Mail, Google Earth, C#, Visual Studio, VB.Net

Infragistics Rad Controls

8-15 to 12-15

**Southern Cuyahoga County Sportsman’s Assn.** (Contract - Web Services & Web App.) (Medina, OH)

* Designed and created member web site.
* Designed and created management interface for site configuration controls all aspects of the club.

**Environment:** MVC 5, Razor, bootstrap, JSON, JQuery, Entity Framework, SQL Server 2008 R2

SMTP Mail, C#, Visual Studio, Dependency Injection,

12-14 to 8-15

**Cardinal Health** (Contract - Web Services & Web Applications) (Twinsburg, OH)

* Assisted in recovery from IT disaster.
  + Existing project was 1.5 years late.
  + *Code was being released to production without QA.*
* Duties:
  + Troubleshooting existing production problems and designing work arounds
  + Tracking issues associated with above problems
  + Remediation of issues associated with above problems,
  + Coding enhancements and remediation of Replacement of K2 product
  + Suggesting alternate infrastructure processes.

**Environment:** MVC 5, AngularJS, Knockout JS, Ajax, Razor, JSON, LINQ, SignalIR,

Dependency Injection, K2, Chrome Debugger, Splunk, ShiPro, Visual Studio, C#,

Thin Clients

2-14 to 10-14

**Safeguard Properties** (Contract – Build & Release Management) (Brookpark, OH)

* Designed and implemented an automated build and deployment system using BuildMaster with PowerShell scripting.
* Established and managed deployment system environments.
* Designed next generation of deployment system.
* Maintained and modified mobile gateway system using JSON communications for Safeguard Mobile App. Backend DB communications.
* Mentored intern.
* Built and deployed Oracle packages.

**Environment:** Ajax, Razor, JSON, LINQ, PowerShell Scripting, BuildMaster, TFS, GIT, SQL

Server, Oracle, DOS Scripting, Visual Studio, C#, VB.Net, Web Services,

6-13 to 1-14

**Stonegate Mortgage** (Contract – Build & Release Architecture, Creation, Administration) (Carmel, IN)

* Served as Lead Architect and Offshore Integrator and interface to Stonegate Mortgage.
* Interfaced with Stonegate departments: Network, DB Admin, and System Admins etc... To facilitate change management and team efficiencies.
* Mapped (documented) entire Stonegate IT systems, interfaces and infrastructure. with off-shore BA. *(Initial off-shore Company had nothing which we were allowed to trust)* ~ 4- 5 weeks
* Migrated version control from offshore Source Safe to in-house Git, Stash interface (*Creation & Administration*). ~ 3 weeks
* Designed, Created and Administered 10 branched deployment network through environments: Dev, Test, UAT, TRN, PRD. Using dynamic deployment branching pathways. ~ 4-5 weeks
* Administered and trained on-site and off-shore personnel on version control system and deployment processes.(effectively replacing myself)
* Acted as Gate Keeper to deployment environment.
* Established automated migration approval system for Hotfix and Regular deployments;
  + *This nearly eliminated normal stakeholder communication through a web based GUI which displayed projects and deployment progress through deployment environments.*
* Participated in monthly releases (originally 3 hours, cut and paste) reduced to 45 minutes (automated) at the time my contract ended.

**Environment:** IIS 7, Git, Stash, Jenkins, TeamCity, PowerShell and Octopus Deploy,

Configuration transforms, SMTP Mail, Web Application, Web Services

8-12 to 4 - 13

**Diebold Inc.** (Contract – Embedded Systems) (North Canton, OH)

* Casino ATM software development.
* Legacy software update,
* User interface augmentation.

**Environment:** Clear Case, Rational, Build Forge. Visual Studio, C#, network diagnostics,

**e**mbedded systems interfaces, VB.Net, Web Services, Web Applications,

11-11 to 4 - 12

**Speedway Inc.** (Contract – Web Application & Web Services) (Enon, OH)

* Speedy Rewards development system development.

**Environment:** Oracle PL SQL package creation including: tables, views, stored procedures and

functions, Visual Studio, C#

8-11 to 11-11

**Lancaster General Hospital**. (Contract – Authorization & Authentication, Web) (Lancaster, PA)

* Designed, created and implemented Knowledge Based Authentication with Epic interface involving RSA...

**Environment:** Web Services, Web Application, Visual Studio, RSA, Epic, C#, SQL Server 2008

08-10 to 08-11

**North American Title Group**. (Contract - Web Services & Web Applications) (Cleveland, OH)

* Design and development of title insurance software packages.
* Test writing with Machine Specifications 4.0.

**Environment:** Web Services, Web Applications, Visual Studio, MVC 3, C#, SQL Server 2008,

Machine Specifications 4.0, Razor, JavaScript, JSON, Ajax, Bootstrap, Generics,

Dependency Injection

02-10 to 7-10

**Investigo – Broadridge Subsidiary**. (Contract - Web Application & Web Services) (Ft. Wayne, IN)

* Securities management software package design and development.
* Upgrading and fiving to the Investigo software.
* ASP.net web development.

**Environment:** VB.net, JavaScript, SQL Server, Source Safe, GIT

10-09 to 02-10

**Private Concern** (Pro Bono – Web Application & Web Services) (Cleveland, OH)

* Google Map functionality integration into internet site.
* *This will aid members in the identification and scheduling of meetings they commonly attend.*
* Converted their database (MS Access) to SQL Express.
* Their entire office has traditionally been run on an MS Access database with VBA code and MS Access GUI. I rewrote this entire application as a web application that integrates with the SQL Express database.
* Rewrote legacy web site in .net.

**Environment:** VB.net, VBA, SQL Express, Google Maps, TFS

8-09 to 10-09

**PartsSource Inc.** (Contract – Windows Applications) (Arora, OH)

* Designed and developed Windows based camera control photographic image archiving system for web based marketing and sales of medical equipment parts.

**Environment:** C#, SQL Server, WMA, N-Unit, Infragistics Rad Controls

 01-07 to 12-08

**Corning Inc.** (R&D), (Contract- Embedded Systems) (Corning, NY)

* Designed and created a GUI which would be used to interface with an embedded system.
* Designed and created a secondary Windows Application as an access configuration tool.
* *This tool used custom AES encryption for authorization and authentication for access to functionality of embedded system.*
* Created bootable USB devices which will ultimately be used in production environments.
* Designed and created a .net communications interface for electrical lab equipment using NI VISA.

**Environment:** C#, VB.Net Visual Studio, Dynamic Linked Libraries, Class Interfaces, SCPI Commands, Virtual Instrument Software Architecture (VISA) Interface, TFS

**Communication Types:** GPIB, RS232, RJ45(TCP/IP), USB

**Equipment Types:** function generators, network analyzers, spectrum analyzers, multi-meters, etc... .

07-06 to 12-06

**The Cleveland Clinic** (Contract – Web Services & Web/Windows Applications) (Cleveland, OH)

* Designed and created a message transport system which would consume web services provided through Epic’s “MyChart” web application.
  + *This system allowed physicians to target patients using dynamically generated SQL queries in an effort to notify patients of medical alerts.*
* Designed and created associated web services and associated database components.

**Environment:** C#, SQL Server, JavaScript, Epic, Infragistics Rad Controls

03-06 to 07-06

**National City Bank** (Contract – Web Services & Web/Windows Applications) (Cleveland, OH)

* Worked on several C# and VB .NET and SQL Server projects.
* *Some were related to project management; others covered areas of risk management and charge-off functionality.*

**Environment:** C#, SQL Server, Infragistics Rad Controls

12-05 to 03-06

**Predictive Service Corp**., (Contract – Windows Application) (Cleveland, OH)

* Created C# enhancements for a .net solution thermal mapping of buildings to locate leaks on roofs.

**Environment:** C#, nUnit, nHibernate, SQLBsae, SQL Server,

08-05 to 11-05

**Xerox Global Services**, (Contract – Solution Architecture (*Web Based Design*)) (Cleveland, OH)

* Created a high level .NET design. This design represented a re-engineering of a legacy system which currently serves their clientele.  The design was a services oriented architecture and a composite solution. It included Web Services, Web Applications, .NET Remoting and Windows Services.

**Environment:** SQL Server, VB.Net Oracle, iWay Adapter Manager, iWay PrintManager and iWay Prime

05-05 to 08-05

**Ohio Savings Bank** (Contract) (Cleveland, OH)

* .NET conversion project of their Gemstone mortgage processing web application.The product was a mix between legacy ASP and ASP.NET. Java Script and XML were used extensively along with .NET Remoting.

**Environment:** Oracle, Toad, Harvest, JavaScript, XML, VB.Net XSLT,

03-04 to 04-05

**Atlas World Group**, (Contract – Solution Architecture & Team Lead) (Evansville, IN)

* Designed and developed a financial data transfer process.
* The data source was a mainframe computer.
* The destination was Microsoft Great Plaines accounting software.
* The process involved: a Windows service, a Web service, a Windows application, XML, and XSLT.
* This was an intranet solution which would act as a data bridge during the process of reducing reliance on their mainframe.

*After 6 months, Atlas requested my presence for an extended time in Evansville, IN.*

* A multitude of small projects.
* All of these projects were .NET based; some were written in VB.net in conjunction with VBA, others were C#.
* Some of these applications supported the product I produced for Atlas prior to this engagement.
* Some were proof of concept designs and prototypes.
* Some involved converting existing COM components to .NET Dynamic Linked Libraries.
* My duties also included mentoring their staff on .NET technologies, improving SQL performance and researching 3rd party geographical mapping products for inclusion into their composite business solution.

**Environment:** SQL Server, JavaScript, XML, XSLT, VB.net

01-04 to 03-04

**ProQuest** (Contract – Web Services & Web Application) (Richfield, OH)

* Development of image recognition system for uniqueness of images for database duplicate elimination for the ProQuest PowerSport Dealer Management System product.
* I also wrote extensive DTS packages within SQL Server 2000.

**Environment:** SQL Server, JavaScript, XML, XSLT, C#, SQL DTS

*References:*  Upon request

*Personal Interests:* Photography, private pilot, scuba diving, fly-fishing, amateur radio, solving puzzles, beekeeping, gardening, celestial navigation, electronics, engineering, astronomy, physics, orienteering, navigation

*Licenses:* Pilot - Single Engine Land, Certified Scuba Diver (PADI), Amateur Radio - Technician Class, Sailing Vessel Captain