Gary Williams

.NET Programmer / AutoCAD Netload Programmer / AutoCAD Designer
Le Sueur, MN 56058

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Experience

- Solutions-driven .NET Developer with 20+ years' experience developing and maintaining software using diverse tools and applications that automate equipment, cut costs, and give insight to management and operators on production and quality issues.
- Knowledge of .NET C#, VB, C++, PLC and Third-Party API's.
- Understanding of control systems including Allen Bradley and Siemens.
- Extensive use of data collection and logging to identify and troubleshoot issues.
- Uses best practices and code standards to ensure reliable software.

Technologies

- .NET
- SQL
- XML
- JSON
- OPC
- REST
- Web API
- HTTP

Software

- Visual Studio Professional
- GIT
- MS Office
- AutoCAD

Owner, Guitar Stuff And More / GaryWare LLC
June 2020 to Present

Own and Operate E-Commerce Website GuitarStuffAndMore.com

CAD Programmer Engineer
Bailiwick
September 2017 to June 2020

Established and upheld code standard and best practices for AutoCAD Netload Application.

This application was designed to help Cad Engineers in creating installation prints more efficiently, automate tasks, improve consistency, create BOM reports, and visually check for common drafting errors. The application provided backward compatibility as drafting needs evolved.

The application was designed and debugged using the AutoCAD 2018 .NET API, Visual Studio 2018 C#, EntityFramework, Linq, EPPlus, DocX, SharpZipLib, GIT.

Also Provided Cad and Visio drawing support for pre-sales and delivery activities, Supporting multiple customers and internal project teams.

.NET Programmer / CAD

Cambria Plant
December 2006 to July 2017

Cambria IT Department: Worked within a delivery team consisting of product owners, QA engineers, and other developers to design, develop, document, and create software systems within a Service Oriented Architecture (SOA), developing backend support for web interfaces using Visual Studio 2018 C#, JSON, XML, SQL, Oracle.

Environment: Full Stack, DevOps, Agile, GIT, Swagger, Scrum, Microservices, REST, Crud, HTTP, Web Services.

Cambria Fab Shop: Upgraded extensive program from VBA to .NET. The program is used to automatically produce shop drawings and G code for waterjet and CNC programming using AlphaCAM.

This application used Visual Studio 2018 and included mixing C#, VB and C++ together into a one project solution.

Cambria Automation Department: Established and upheld code standard and best practices for 127 Visual Studio Projects that made up 37 Visual Studio solutions.

Created programs directed by R&D, Engineering, Automation, QA and Management, using Visual Studio .NET C#, Siemens and Allen Bradley PLC Automation APIs. Supported Cambria Plant Automation Department, Data Acquisition and Reporting, Charting, Touchscreens, HMI's, Bar Codes, Automatic Printers, Scanners, Plant Wide Oracle Warehouse Control System Upgrade from SQL, also support for AutoCAD special projects.

Software: Visual Studio .NET, Siemens, LibNoDave, AutoCAD, Allen Bradley, Automated Solutions OCX, Zed Graph, EPPlus, DocX, AlphaCAM, Proficient, VTK-Visualization Tool Kit, Quinn-Curtis SPC Charts, XML, SOAP, SQL, Oracle, Savigent

Structural Drafter
AEC Engineering - Minneapolis, MN

May 2004 to January 2006

• Document the design and installation of unmanned wireless sites from site photos, field sketches, and engineering input, including installations on water towers, buildings, monopoles, and self-support towers.
• Layout and structural detailing of foundations, columns, walls, footings, stairs, railings, frames, pipe supports, platforms, tanks, vessels, lifting devices, buildings and equipment.
• Programming: Block manager with utilities to automate drafting. Pressure vessel/ tank database to record and report on inspection data and worksheet to calculate fill heights based on thickness readings and requirements.

Software: AutoCAD, MechQ, Excel, Visual Studio .NET, Access, Project Open

CAD Designer
Chevron Energy Solutions - Eagan, MN

May 2003 to November 2003

Developed drawings for large scale HVAC system upgrades and integrations including building layouts, related equipment locations, removal and installation details, panels, layouts, schematics, p&ids and riser diagrams, piping systems for compressed air and steam recovery, water treatment systems and infrared heating systems, also some file conversion, and programming for eps to pdf files and cad attribute maintenance.

Software: AutoCAD, Visual Basic Professional, Access

CAD, HMI Designer
Novaspect - Eden Prairie, MN

August 2001 to March 2003

Created Deltav iFix graphics HMI's for ethanol and energy plants, designed and documented panels, sub-panel layouts and electrical prints for Deltav control systems. Created VB program for organizing, inserting and maintaining standard blocks, standard templates, drawing revisions and automated printing, building and inserting bill of materials and drawing lists for fast accurate drawing set creation, Smart Shapes Flow Charts for Sama drawings in Visio-Access.

Software: AutoCAD, Visual Basic Professional, Access, Deltav iFix,
Visio

Education

Certificates - Microsoft Certified Application Developer (MCAD) and Microsoft Certified Professional (MCP) in Web Applications, XML Web Services, Server Components and Windows Applications

North Hennepin Community College - Brooklyn Park, MN

March 2005 to September 2005

Certificate in Configuration Management
University of Wisconsin - Milwaukee, WI

September 1999 to September 1999

Diploma in Mechanical Drafting and Design
Anoka-Hennepin Technical College - Anoka, MN

September 1992 to June 1994