

## Matthew Weber

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PROFILE      Talented, experienced, and intensely dedicated individual who is able to provide excellent software design, planning, and execution of its implementation. Through leading others, contribution to the company is amplified by ensuring everyone else's contribution is where it should be. Track record demonstrates an extremely high rate of output while working.

ACCOMPLISHMENTS

- Personally overhauled a software product's complex publishing process by designing and implementing a fully-automated build system by extending stock Visual Studio Team Foundation Build functionality which directly resulted in an immense amount of improved worker productivity, the ability to serve customers exponentially faster, greatly increased general customer satisfaction, and ultimately, increased profit.
- Personally architected, in its entirety, a new and one of a kind software system and platform, forming a new core enterprise software product to replace an existing one. Implementation currently ongoing. Being based on .NET and written in C#, some, but not all, of the technologies used extensively by the system are WPF (MVVM), WCF, MEF, AOP using PostSharp, COM (used for scenarios such as providing COM-creatable classes acting as proxies to manually created and managed Application Domains), advanced Outlook use, Extended MAPI, an original user interface framework, multiple original plug-in architectures, an original and extensive Outlook wrapping library overhauling the entire Outlook Object Model, and other original frameworks.
- Led the integration of third party LCD screen technology with a software system by designing the necessary components, such as a required ASP.NET conenctor application, and by managing a team of offshore developers in their implementation.
- Managed and participated in the design, implementation, and demonstration of new green technology produced by integrating a .NET software scheduling system with a large conglomerate's building control system product in a coordinated effort with the conglomerate's engineers. This allowed the scheduling system to directly affect building controls such as AC, lights, and auxiliary hardware.
- Led the integration of BlackBerry and other mobile device support into a .NET software product by designing an advanced and unique Microsoft Exchange synchronization solution utilizing Exchange Web Services (EWS) as well as managing a team of offshore developers tasked in its implementation.
- Completely overhauled and implemented a new source control environment and process required by developers to follow in order to maintain legacy system products. This affords a greater level of product stability and worker accountability in regards to any changes that were made. All of this led to a more stable and solid product.
- Personally created new Microsoft Installer packages (MSI) using WiX. able to be compiled during the automated publishing process and subsequently be used to perform the complex installation entailed by the product with complete control over the process. These new installers resulted in a large shift in the success rate experienced during very large deployments from low to near perfect to perfect.
- Added robust support for the creation of Microsoft installer patches (MSP) into the automated build system, resulting in painless update experiences for customers, as well as mitigated risk for the customer due to the rollback capabilities of this patching technology which few software companies are able to provide due to the complexity involved and expertise required.
- Designed a packaging and deployment framework which offers the ability to provision automatic updates and provides a powerful Windows Installer bootstrapper written in C++ using the Windows API which even featured its own original scripting language for advanced scenario handling.

- Personally implemented a new reporting engine in a software system that offered improved reporting capabilities as well as the ability for the customer to create their own reports and customize existing ones.
- Successfully planned and executed a strategy that involved reducing the level of maintenance work on the legacy product to a point where the company would have enough time and resources to introduce a completely new software product (to achieve growth), while still being able to take on new customers with the current product (to stay afloat).
- Took actions to greatly improve our practices in regards to releases and updates, leaving a history of reliable, safe, and orderly releases and deployments over time.
- Personally contributed over 1000 improvements and bug fixes to an existing software product.
- Ensured the satisfaction of all customers, at first by directly working with them to fix their issues, and then eventually by managing a team of people doing the same thing.

PROFESSIONAL  
EXPERIENCE

**Emergingsoft**, Bloomington, Minnesota USA

*Senior Software Architect*

**Jan, 2011 - Present**

Lead designer, engineer, and manager of developer team for product used by thousands of users in enterprise environments. See Achievements section for details.

*Software Developer*

**August 2008 - Dec. 2010**

Designer and engineer for product used by thousands of users in enterprise environments. See Achievements section for details.

EDUCATION

**University of Minnesota**, Minneapolis, Minnesota USA

B.Comp.E. (Bachelor of Computer Engineering) June 2008

EXPERTISE

- Design: Very large enterprise software architecture and design made up of many components to be used by thousands of concurrent users
- Languages: C#, C++
- Frameworks and Technologies: .NET, WPF, WCF, AOP (using PostSharp), WiX, ASP.NET, MEF, COM, COM interop (P/Invoke), Active Directory and Group Policy
- APIs: Office, Extended MAPI, Team Foundation, Win32, ATL, MSI
- Tools: Visual Studio 2010, WinDbg, Expression Blend
- Database Related: MSSQL, NHibernate
- Other: IL modification and analysis, various reverse engineering techniques