

**John Merryweather Cooper**

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My most recent position was at Stockamp/Huron Consulting Group from January 2011 to March 2011 as a Build Manager. There, I was instrumental in pioneering their effort to automate their Coded UI testing on TFS 2010. I also conducted smoke tests, wrote a Microsoft Workflow activity to override the default "Update Build Number" control, and a variety of other activities.

I have worked as a builder and WiX author for Microsoft from May 2008 to May 2009, from April 2010 to July 2010 and again from September 2010 to January 2011. My latest Microsoft position as a Builder 2 which allowed me to participate in my first software release. I love the challenge of problem solving the smallest irregularity.

As a Builder 2 for SCX, my primary role has been setting up and testing the build environment for a new product. In addition, because of my experience and expertise, I was involved in the Golden Build and signing process for the Opalis 6.3 release. I did extensive work with MSBuild and TFSBuild XML

As a Builder 2 for a team at MSN, my primary role was to implement all the required builds on Visual Studio 2010/TFS. I configured and debugged the Build Controller running on a virtual machine. I versioned the build through a small .proj file that touched all the AssemblyInfo.cs files with the current version before the build and recorded the current build in version.txt. Provisions were also made for build-specific code analysis and a Gated check-in build.

But I spent most of my time writing nine Wix installers covering the install of three databases, four Windows services, and two web clients. Ultimately, the code to build these MSI's was integrated tightly into the main build using Votive project reference notation. This eliminated the need to build the main code and the installers separately.

As a Builder 1, my primary role was to implement all the required builds on BuildTracker and completely remove team dependency on MESE. Periodically, the available build options in the MSBuild and Razzle XML configuration files were also synced with the list of BuildTracker configurations and the BuildTracker configuration list expanded or contracted as necessary. I also provided support to developers on using BuildTracker, and I locally administered BuildTracker resources.

Another role I had was to problem solve build failures and enter bugs into Product Studio. I also was tasked with making build kits for overseas partners using both WiX and Info-Zip. I authored all of the WiX XML from scratch and used a Perl script to recurse over the subdirectories and include or exclude files based on security settings. A bug in WiX itself (stack overflow during compiling/linking) prevented these kits from assembling correctly, but the Info-Zip kits worked correctly.

Finally, I scripted some of the build branches in PowerShell and Perl to mirror Source Depot to our overseas TFS servers and to do periodic binary integrations into both repositories.

I am also aware that there is a significant desire by employers outside of Microsoft for familiarity with Java, Ant, Maven, and Hudson. I have used Ant to configure a build environment for two Ada projects I am developing in my spare time. I'm also using Java to write an Ant extension to support GNAT Ada building and compiling tools directly. Likewise, I'm developing a familiarity with Maven's POM technology, and with Hudson's continuous integration strategy.

From 1985 to 1989, I was also on active duty as a commissioned officer with the U.S. Army. At that time, I had a Top Secret clearance as the S-2 for a nuclear-capable, self-propelled medium cannon artillery unit. I was also an honor graduate of the TACFIRE Fire Support Course including intensive training in digital fire planning for conventional, nuclear, biological and chemical fires.

**Qualifications:**

- 2 Year Microsoft Visual Studio 2010/TFS 2010 Experience.
- 7 Years Web Development Experience.
- 2 Years SQL Experience (MySQL server side and SQL Microsoft Server 2008 R2).
- 2 Years C# Experience.
- 5 Years C++ Experience.
- 10+ Years C Experience.
- 10+ Years Ada 83/95/2005 Experience.
- 10+ Years Pascal Experience (also Modula-2).
- 10+ Years FORTRAN Experience.
- 5 Years Java Experience.
- 5+ Years Misc Experience (LISP and Prolog).
- 5 Years Perl Experience.
- 2 Year PowerShell Experience.
- 10+ Years Bourne shell script Experience.
- 2 Years JavaScript, vbscript, CSS, XHTML, XML, XSLT Experience.
- 2 Years MSBuild, TFS, Visual Source Safe Experience.
- 5 Years Source Depot / Perforce Experience.
- 10+ Years CVS/RCS Experience.
- 2 Years Subversion Experience.
- 2 Year CoreXT Experience.
- 1 Year BuildTracker Experience.
- 5 Years NMAKE makefile Experience.
- 5 Years DMAKE makefile Experience.
- 10+ Years BSD makefile Experience.
- 10+ Years GNU makefile Experience.
- 10+ Years Windows 1.03 to Window 2008 (also DOS 2.x+ and OS/2)
- 10+ Years Office Applications Experience.
- 2 Years WiX Experience.
- 10+ Years FreeBSD binary installer tar scripting Experience.
- 3 Years RPM Experience.

**Education:**

Gonzaga University School of Law – Spokane, WA – August/1990 – May/1993

- Obtained my J.D. (Juris Doctorate)
- Created a Torts Tutorial using Visual Basic 1.0.

Gonzaga University – Spokane, WA – August/1981 – May/1985

- Obtained my BA in Mathematics (with completion of Honors Core)
- Completed one year of FORTRAN
- Completed one year of Pascal

**Professional Experience:**

Stockamp/Huron Consulting Group (Mainz Brady Group)—Lake Oswego, OR

Jan./2011—Mar./2011

Build Manager (PM)

- Pioneered a way to automate running Coded UI automated testing from a custom Power Shell script using TFS 2010 Test Controllers and Test Agents dynamically.
- Authored a drop in replacement for the “Update Build Number” Microsoft Workflow Build Activity to generate a custom build number and propagate it to managed code projects.
- Authored scripts to automatically shelve developer pending changes along with an MSI to deploy the scripts (written in WiX).
- Advocated for moving away from developing in the trunk branch to using a branch and integration strategy that avoids deadlocking developers during integration activities when the trunk branch would otherwise be locked.
- Installed, deployed, and smoke tested pilot and development versions of a healthcare revenue cycle product using Microsoft Silverlight and C# managed code.
- Diagnosed, on my own initiative, a misconfiguration of TFS 2008 build definitions that forced only one build definition to be active at a time and recommended an effective solution.

Microsoft (Volt)—Redmond, WA

Sep./2010—Jan./2011

Builder 2 (SCX & Interop)

- Ship/Release Opalis 6.3 as the build engineer in charge of Golden Builds, overseeing signing, and even patching resource and AssemblyInfo files to fix copyright and versioning issues.
- Setup and test build environment for SC\_Orchestration (Opalis 2012)
- Port Office Manager builds from Visual Studio 2008 to Visual Studio 2010.
- Setup and configure TFS 2010 build agents and controllers.
- Write a workflow to allow TFS 2010 to call builds started by script files or executables instead of just solution files or TFSBuild project files.
- Provide support to other builders on how to write versioning and looping activities in MSBuild XML.
- Provide support on WiX XML authoring.

Microsoft (Volt)—Redmond, WA

Apr./2010—July/2010

Builder 2 (L & O/CMI)

- Create/Modify Visual Studio 2010/TFS Build Environment for two projects

- Wrote nine WiX Installers deploying three SQL databases, four Windows services, and two web clients

Microsoft (Collabera) – Redmond, WA

Sept./2009 – Nov./2009

Software Development Engineer/Test

- Translate WiX v1 and v2 scripts to v3
- Write Perl scripts to automate much of the process
- Remove obsolete Elements from the scripts
- Generate fragments that perform in a similar manner to use Perl scripts
- Test resulting WiX scripts for compiling

Microsoft (Volt) – Redmond, WA

May/2008 – May/2009

Builder (PMX)

- Write batch, JavaScript, Perl, and modified CoreXT scripts for six branches.
- Maintain Razzle and MSBuild XML configuration files.
- Locally administer BuildTracker resources.
- Debug and improve Perl build scripts.
- Problem solve build failures on both Linux and Windows platforms.
- Write Perl scripts to generate XML for WiX and Info-Zip build kits.
- Write scripts in PowerShell and Perl to implement mirroring Source Depot to/from TFVC and to integrate binaries into both depot systems.
- Receive training in: C#, vbscript, server virtualization, and project management.

FreeBSD – (<http://www.freebsd.org/>)

1999 – Present

Port Maintainer

- Build, ported, tested, and maintained a number of libraries and applications for the FreeBSD Project.
- Adapt third party software to the FreeBSD Ports Tree build environment.
- Build “world” periodically to keep ports current against the –STABLE branch.
- Involved in the initial effort to port Mono (an Open Source version of C#) to FreeBSD.
- Developed and submitted patches to the Boehm Garbage Collector (written in C and C++) to make it compatible with FreeBSD.
- Submitted patches for integration into the FreeBSD kernel to support new graphics adapters and motherboard chip sets.
- Ported several Perl scripts to the FreeBSD ports tree such as textproc/makepatch.
- Debug C++ compiler failures (primarily due to different GCC versions) and implement workarounds for various development tools.

Various School Districts in Idaho, Kansas, and Maryland

August/2004 – June/2007

Math Teacher

- Taught 6th and 7th Grade General Math (Garden Valley, ID).

- Taught Pre-Algebra and Algebra I to 7th and 8th Graders (Liberal, KS).
- Taught Algebra I to 9th – 12th Graders (Baltimore County, Maryland).