**Doug Hagerman**

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[Portfolio](https://www.mathcompiler3d.com/Portfolio)

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**Objective:** Professional candidate specializing in GUI development for 2D & 3D in Wpf / C# looking to push the limits of what’s possible in software engineering. Experienced in Energy, Finance, Construction, Plastics Science, Medical, Tech CSI, Travel fields.

**Summary of Skills and Strengths**

* **Languages**
  + Wpf, C#, Helix, GUI -Specialist 2D & 3D
  + Custom Controls – 2D & 3D, tree walking, attached behaviors, markup extensions
  + UWP, WinForms, Vb.Net, VB6, VBA
  + Jscript and C# formula evaluators, J#.Net, C++
* **3D Modeling** Parametric assemblies, MP4 creation, animation using dynamic storyboards
* **Source Control & related**
  + Jira, TFS, NUnit, Subversion,
* **Database**
  + Sql Server, Sql Clr, Oracle, Access, Entity framework
* **Leadership**
  + Technical lead, Mentor
  + Customer requirement gathering, 50, 70, 90% ROMS, retrospectives
  + Work closely with UX team for sprint designs, owned all common controls and shared libraries
* **Platforms, frameworks, systems & services**
  + Citrix, Prism, OpenGL, SharpDx, As400, Direct X for 3D
  + MEF, Windows Services, Web Services, WCF, Remoting
* **Software**
  + Chief Architect, photoshop, blender

**Work Experience**

**Position** **Company** **City, State** **Dates**

3D SME MathCompiler3D Klamath Falls, OR 2023-Current

3D SME Acutus Medical Ellensburg, WA 2022-2022

3D SME Reecer Creek Wood Yard Ellensburg,WA 2018-2021

Senior Software Eng SRT David, FL 2017-2017

Tech-lead Wpf C# Travelport Ellensburg, WA 2011-2016

Senior Software Eng Invitrogen Madison, WI 2010-2010

Solution Architect Multnomah County Portland, OR 2009-2009

Rebuilt house after fire Personal Time Cle Elum, WA 2008-2008

Senior Software Eng Microsoft Redmond, WA 2007-2007

Senior Software Eng Areva Redmond, WA 2006-2007

Senior Software Eng AQuantive Seattle, WA 2004-2006

Senior Software Eng CIO Trust Tukwila, WA 2003-2004

Solution Architect U.S. Building Systems Tulsa, OK 2001-2003

Software Engineer Achilles Everett, WA 1998-2001

**Accomplishments**

* **MathCompiler3D - Wpf / C# / Helix 3D / MP4 / PSD**
  + Authored and contracted using Scientific Research Suite & MathCompiler3D
    - 3D worlds, dynamic animations, virtual whiteboard,
    - Combinatorics (for equation research), client activated on-demand animations
    - Dynamic 3D animatable parametric assemblies
  + Published 3D on-line magazine called conceptual design
  + Volunteer at local church for 3D media creation using
* **Acutus Medical - Wpf / C# / Helix 3D**
  + Dynamically modeled 3D Catheters which is now published in diagnostic medicine
  + Created complex 2D custom controls to fine tune 3D rendering
  + Xaml interface for choosing 3D rendering options (French size, Catheter type, etc.)
* **Reecer Creek Wood Yard - Wpf / C# / Helix 3D**
  + Produced 3D software that:
    - Modeled woodyards, workstations
    - Firewood workflows, 3D inventory. outdoor store configurations
* **SRT - Wpf / C#**
  + Created tool for dll distribution tool for a large quantity of plugins after compile
  + Created configuration wizard for undocumented hardware - lan shark
  + Created plugins for CSI type software
* **Travelport - Wpf / C# / Helix 3D / UWP** 
  + Owned all of common controls and shared libraries for the company
  + Lead a remote team in agile iterations
  + Created UWP Snippet access on W8 for T4 templates and other common code
  + Made a prototype for a 3D consequence diagram
* **Invitrogen - Wpf / C# / Sql Server / Xps**
  + Worked directly with Scientists to creates charts for assay test results
  + Use Sql Clr to perform bulk updates in Xml to Sql Server
  + Created xps reports via code
* **Multnomah County - Wpf / C# / Sql Server**
  + Created a weatherization system for homes in the county
* **Microsoft - C# / Windows Services**
  + Wrote services to automatically add meta-data to advertising images on arrival to folder
* **Areva - C# / Prism / Win forms / Oracle**
  + Design multiple plugins for energy companies in Australia to track 6/60 second fail overs
  + Provided a wizard engine to configure undocumented proprietary hardware
  + Collaborated with Oracle DB on stored procedures called by plugins
* **aQuantive - C# / Winforms / Sql Server / Excel interop**
  + Transformed finance department final data processing to update finance data snapshots for end of month reporting
  + Created a Navigator interface so that employees could access common applications written for the business
  + Held interviews for potential new employees to add to the team
  + Worked closely with the QA team lead on features to test in each software release
* **CIO Trust - C# / Winforms**
  + Created new editing software for the finance department
* **U.S. Building Systems - VB6 / Sql Server**
  + Enabled clients to upload land snapshots and see their 3D home rotating
  + Oversaw fiber optic cable installation to connect office and main warehouse / hardware
* **Achilles - VB6 / VBA / Access**
  + Reduced tracking time for employee bonus program in Excel @40 hrs. wk., to 2 hrs. Wk.
    - Sought out other areas of the company that could benefit from the time savings by writing software for other departments (Ex. Warehouse inventory app)