

**TECHNOLOGY** C#, C/C++, Python, HTML, SQL, Java  
**SKILLS** MS SQL, Oracle  
Windows, working familiarity with Linux

**CURRENT POSITION** **Bentley Systems, Inc., Exton, PA**  
Senior Software Engineer: July 2009 – Present

*Lead Developer/Manager CONNECTION client 2014-Present*

Manage and lead the development of the Bentley CONNECTION client, a managed desktop application for integrating applications with Bentley's cloud services.

- Manage a team of developers across multiple offices and time zones
- Handle client authentication through WS-Trust to provide access to user data
- Provide native/managed/COM APIs for accessing cloud services and data
- Work with various product teams inside Bentley to plan client and API enhancements to fit their cloud collaboration needs
- Developed user interfaces to display project data, notifications and updates using WPF and the MVVM pattern
- Wrote a WIX installer and managed application updates for other Bentley products delivered through the CONNECTION client
- Lead a team to rapidly replatform all product licensing, reporting, and enforcement on top of the CONNECTION client

*ProjectWise Developer 2009-2014*

Developed Windows services and clients for the ProjectWise content management system, a 3-tier content and information management system targeted at CAD users.

- Maintained core server components including access control, database upgrades, and auditing
- Created server and client automated tests for use in certifying releases
- Ported C++ codebase to 64bit
- Updated wire protocol to support older clients and structure size differences on multiple architectures
- Extended public API for integration with 3<sup>rd</sup> party software
- Maintained integration plugins for Microstation, Autodesk Revit and Microsoft Office
- Managed interns and helped them develop MFC programming competencies by assigning relevant tasks and providing guidance

**PREVIOUS EXPERIENCE** **Lockheed Martin, Knolls Atomic Power Laboratory, Schenectady, NY 2008**  
Intern, Nuclear Reactor Core Analysis Process System

- Developed automated regression tests, fixed bugs, and added new features to the Results Management System
- Prototyped new user interfaces for upcoming projects

**Bentley Systems, Inc., Exton, PA 2005-2009**  
Intern, Software Engineering

- Maintained public documentation and developed scripts to automate documentation creation from source
- Developed ATPs in C++ to help certify releases on multiple versions of Windows

**PERSONAL PROJECTS** **Applecross Community HOA Website 2016-Present**

- Created a website to manage submissions to the architectural review committee using ASP.Net Core hosted in Azure
- Manage homeowner building requests through submission, completeness checks, review, and long term archive storage
- Automatically notify homeowners and board members of status changes and action required via email service

**Android Application Development 2010 - 2014**

- Developed and marketed Android apps to enhance access to Goodreads.com on mobile phones and tablets
- Queried the public API to modify and display data, maximizing usage of available screen real estate, camera functions, and touch input
- Released frequent updates to improve usability and add new features based on user feedback

**EDUCATION** **Rensselaer Polytechnic Institute**, Troy, NY  
Bachelor of Science: Computer Science; May 2009

**Upsilon Pi Epsilon Honor Society**