

**NAME: David Wethe** (DBA Detant-Inc.)  
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**EDUCATION:**

BS-Physics Principia College, Phi Alpha Eta Honors Society

**SPECIAL TRAINING/CERTIFICATIONS:**

Honors graduate: U.S. Navy Officer Candidate School  
MCP - Microsoft Certified Professional.  
Patent Holder.

**EXPERIENCE:**

**SUMMARY:**

**System Architecture and Infrastructure:** Bank and Insurance systems, Robotics, eCommerce, and Tactical Systems.

**Visual Studio 2022:** C, C++, C#, VB, SQL Server, TypeScript, Java Script (a.k.a. ECMAScript).

**eCommerce:** ASP Web Applications, TCP/IP Application Servers, Online Transaction Processing

**3D Graphics:** Earth rendering with cesiumjs.org (open source). Flight simulation.

**System Design and Low Level Programming:** i.MX 6, STM32/CAN Embedded Systems.

**Support Chief Technical Staff**– Raytheon Technologies September 2018 to December 2023.

**Flight Simulator Architect** – AeroVironment Inc., February 2011 to April 2018. Lead a team in creation of a Training Simulator for drones. Integrated Autopilot and Inertial Navigation System flight code into a simulated Flight Dynamics Model and Terrain Image Generator (similar to Google Earth).

**Computer Scientist** - Digital Wizards Division of COLSA Corp March 2004 to January 2011. Created Training Simulation and Visualization tools for the Patriot Missile System. Also created Training Simulator for the Mission Operator (back seat) of the EA18g (Electronic Attack) aircraft. Secret clearance.

**Systems Architect/ Program Manager** - New Century Products. January 2002 to March 2004. Online Calendar of Events and Site Updates Uploading using Visual Studio.NET. E-Commerce: Online Order Processing / Credit Card Processing using JavaScript. Cross-platform Nurse Charting - Browser front-end with Microsoft .NET Server.

**Sr. Software Engineer** - Stellcom, Inc./Mitchell International. July 2000 to December 2001. Worked on GlobeEST, a huge online corporate Automobile Collision Estimating system that is multi-lingual / multi-national with automated program updates, cross-platform compatible, uses XML, MAPI, MIME.

**Lead Programmer** - Lentec Corp. - March 1994 to June 2000. Reported directly to the President to architect Office Automation software that has been used at some of the world's largest banks including Washington Mutual, Fidelity National Bank, and First American Title. Full life-cycle. Designed and coded 100% of the first version as shown at trade shows. Then became the team leader with hire / fire / mentor responsibility. Together the team wrote over 3000 pages (6mb) of source code and SQL Stored Procedures.

**Supervisor of Repair Department** - National Semiconductor, Large Computer Systems Division

Developed a highly effective failure analysis report that cross-referenced component failures to buyers. This report clearly showed which buyers were buying quality products and which were not. This resulted in substantial improvements in system reliability.

**U.S. Navy Officer** - Supervised a team of eight specialists doing Oceanographic Research on a classified project. Top Secret Clearance. Some cryptography experience. Helped promote racial and cultural understanding as Chairman of Interethnic Forum at OCS-NTC-Rhode Island

**SOFTWARE APPLICATIONS AND TECHNOLOGIES:** Windows XP to 11 conversions. Linux (Raspberry Pi and AWS). SQL Server and MS Access, Transact SQL, ODBC, ADO, OLE control of MSWord, Access, Excel. Microsoft's Dot NET initiative, Visual Studio.NET., C++, C#, Visual Basic, VBA. Advanced Graphics: 2D and 3D Mapping systems (CesiumJS), OpenGL, DirectX. /DirectDraw. N-Tier, OOD/OOP, COM, ActiveX. OCX/DLL, Internet/Intranet, IIS, HTML, XML, DOM, ASP, CGI, MAPI, MIME, Tortoise SVN, GIT, JIRA, Agile. Limited experience with: STM32 and iMX6 microprocessors, CAN bus.

**SOFTWARE LANGUAGES:** Visual Studio.NET C, C++, C#, VB, VBA, Java Script. (ECMAScript), TypeScript.

**MULTI-LINGUAL / MULTI-NATIONAL:** Authored systems in English, French, Italian, Spanish, Portuguese, German and Swahili. Some experience with right-to-left languages.