**NAME:  David Wethe**
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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:** Tactical Systems, Bank and Insurance systems.
**Visual Studio 2019:** C++, C#, VB, COM, SQL Server, Microsoft Access, Java Script.
**eCommerce:** ASP Web Applications, TCP/IP Application Servers, Online Transaction Processing
**3D Graphics:** Earth rendering perspective from space to sub-sea floor. Flight simulation.
**System Design and Low Level Programming:**  STM32/CAN Embedded Systems.

**Support Chief Technical Staff**  - Raytheon Technologies  September 2018 to December 2023.
Missile Defense systems.

**Flight Simulator Architect / Project Manager** – AeroVironment Inc., February 2011 to April
2018.  Training simulators for drones.

**Computer Scientist** - Digital Wizards Division of COLSA Corp March 2004 to January 1011.
Training simulator for the Patriot Missile System.  High performance, multithreaded C++
programming of Tactical Data Systems with situational display of moving objects in a 3D Earth
rendering, OpenGL, GDI.  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 - UNIX/LINUX front-end with Microsoft .NET Server.
Click-once installation.

**Sr. Software Engineer** - Stellcom, Inc./Mitchell International. July 2000 to December 2001
Created Component Object Model (COM+) Objects, Active Server Pages (ASP), and Distributed
Network Architecture (DNA).  Worked on GlobeEST, a huge corporate Automobile Collision
Estimating system that is multi-lingual / multi-national with internet data transfer and program
updates, cross-platform compatible, uses XML, MAPI, MIME.
After the contract ended, the product was sold to Mitchell International and I was called back to
assist in the transition of this product to Mitchell.

**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 10 conversions, SQL Server and 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, OpenGL, DirectX/DirectDraw. N-Tier, OOD/OOP, COM, ActiveX OCX/DLL, Internet/Intranet, IIS, HTML, XML, DOM, ASP, CGI, MAPI, MIME, Source Safe, SVN, GIT. STM32 microprocessor, CAN bus. Limited experience with: Red Hat Linux.

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

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