

# Ryan Retting

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## Summary of Qualifications

<b>Languages:</b>	C/C++ (13+ yrs) Visual Basic	Java (10+ yrs) HTML	C# (7+ yrs) Java/VB script	Perl (10+ yrs) LabVIEW	PHP VHDL	Assembly Scheme
<b>Technologies:</b>	.NET CGI Win32 API	OpenGL Unix shell Sockets TCP/IP	DirectX XML/XSD DAQ	Direct 3D SQL HLA & DIS	Java3D Swing Functional Languages	ASP/ASP.NET JMS
<b>Platforms:</b>	Vista/XP/2K/9x	Linux	DOS	Unix	WinCE/PPC	Mac
<b>Coursework:</b>	Advanced C++, Win32, MFC 3D Graphics (real-time) Compilers and Interpreters Human Computer Interaction		Advanced Java, Swing Operating Systems Functional Languages Electric Circuit Analysis		Networks & Distributed Computing Software Engineering Artificial Intelligence Digital Systems	

## Education

2002 – 2003	Cal Poly, San Luis Obispo, CA	<b>M.S. in Computer Science</b>	GPA: 3.6
1996 – 2001	Cal Poly, San Luis Obispo, CA	<b>B.S. in Computer Engineering</b>	
1995 – 1996	Pierce College, Canoga Park, CA	Concurrent enrollment during High School	
1992 – 1996	Campbell Hall School, N. Hollywood, CA	High School Diploma	

## Experience

4/04 – Present	<b>Senior Engineer II, Raytheon Company</b> – El Segundo, CA Saint George Enterprise Campaign <ul style="list-style-type: none"><li>• Sensor Management Team Lead - Leading a small team through planning, design, development, test, and integration phases</li><li>• Daily communication, collaboration, and integration with various Raytheon teams across the country</li><li>• Designed and developed automated test scripts and framework for validation and continuous regression testing</li><li>• Developed sensor simulation software for various Air to Air &amp; Air to Ground Radar and SIGINT models</li><li>• Wrote multiple HLA interface layers for various applications</li><li>• Designed and developed multiple Java and C++ applications</li></ul> B2 Radar Modernization Program <ul style="list-style-type: none"><li>• Developed LabVIEW data acquisition software</li><li>• Designed and wrote requirements documents for the STE hardware &amp; software, Video Distribution System, GPS &amp; IRIG Time Distribution System, and 1553 Switch system</li><li>• Worked directly with manufactures and vendors</li></ul>
4/05 – Present	<b>Website architect and developer, Society of Professional Engineers</b> – El Segundo, CA <ul style="list-style-type: none"><li>• Wrote front and backend using Perl and MySQL (<a href="http://SoapLa.com">http://SoapLa.com</a>)</li><li>• Designed and coded web-based membership database and event registration system integrated with Paypal (Perl)</li></ul>
3/02 – Present	<b>Consultant and original website architect and developer, Central Pacific Ski Club</b> – San Luis Obispo, CA <ul style="list-style-type: none"><li>• Wrote front and backend using ASP.NET, C#, and XML (<a href="http://CPSOnline.com">http://CPSOnline.com</a>)</li><li>• Later ported the system from C# to Perl and implemented a MySQL database</li><li>• Designed and coded web-based membership database (Perl)</li></ul>
6/02 – 9/02	<b>Software Developer Engineer in Test Intern, Microsoft Corporation</b> – Redmond, WA <ul style="list-style-type: none"><li>• Wrote sample applications for the .NET Compact Framework</li><li>• Wrote automation for Visual Studio for Devices (PPC and Win CE) App Install and debugger features</li></ul>
6/01 – 9/01	<b>Software Test Engineer Intern, Microsoft Corporation</b> – Redmond, WA <ul style="list-style-type: none"><li>• Design and wrote test tools for the Stinger Smartphone (Later renamed Windows Mobile), written in C#</li><li>• Tested Device Management in Stinger Smartphone (Later renamed Windows Mobile)</li></ul>
6/00 – 9/00	<b>Software Test Engineer Intern, Microsoft Corporation</b> – Mountain View, CA <ul style="list-style-type: none"><li>• Tested PowerPoint's Custom Animation and Presenter Tools features</li><li>• Wrote automation test scripts using internal tools and Perl</li></ul>
4/99 – 12/99	<b>IT, Network Administrator, Webmaster, Prime Time Sports TV</b> – San Luis Obispo, CA <ul style="list-style-type: none"><li>• Responsible for supporting, maintaining, and upgrading the company's computer systems in three locations running NT Server, Exchange Server, IIS, Merlin Legend phone system, Intuity Audix voicemail system, and other network applications</li><li>• Programming both Access/Visual Basic and HTML/ASP web pages</li></ul>

### **Leadership and Extracurricular Activities**

- Raytheon YESnet (Young Engineers & Scientists Network) Social Chair & Council Member (3+ years)
- Society of Aerospace Professionals Vice President of Membership (3+ years)
- Cal Poly Ski Club Executive Board Vice President (1000 members, 2<sup>nd</sup> largest ski club in the nation)
- Week of Welcome, Orientation Leader (4 years) – Orientation program
- Wildflower Triathlon, committee leader (3 years)
- Running Thunder, Board Member (2 years) – Cal Poly spirit and rally club
- Yosemite Residence Hall Tower President & Hall Council Member

### **Volunteer Experience**

- 9/98 – 5/05 Wildflower Triathlon volunteer
- 9/94 – 12/99 Technical Support, Los Angeles Free Net – Los Angeles, CA
- 9/98 – 6/99 Yearbook Layout, Design, and Club Representative, Cal Poly Yearbook – San Luis Obispo, CA

### **Projects:**

Senior Project: Classwatch is a website which finds open classes for over 1200 Cal Poly students free of charge.

Master's Thesis: "A Complete Wood Grain Modeling Application Incorporating Multiple Cut Types, Species, and a Tree Ring Database"