

# Curriculum Vitae

Geralyn "Geri" Schneider Winters, MS

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Company Web Sites: <http://www.wyzzk.com>, <http://www.WritingUseCases.com>,  
<http://www.ResourcesForBusinessAnalysts.com>

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United States Citizen

## **Education**

- Designing training and curriculum for Adult learners, 1998
- Decker communication skills, 1995
- Par leadership training, 1995
- Rational Software Certified Object Oriented Analysis and Design and Rational Rose Consultant and Instructor, 1994, 1998, & 2006
- Master of Science, Computer Science, Southern Illinois University, Edwardsville, IL, 1984
  - Special emphasis in Operating Systems
  - Thesis/Project: Graphical Program Execution Monitors, advisor: Dr. Greg Stephen
- Bachelor of Arts, Music, Southern Illinois University, Edwardsville, IL, 1982
  - Minors: Mathematics and Computer Science

## **Certifications**

- California Teacher Certification, Trade/Technical K-12 and Adult, Computer Programming, since 2000
- University of California Extension, Certified Instructor for Object Oriented Analysis, Object Oriented Design, UML, and Design Patterns, since 1997
- Rational Software, Certified Object Oriented Analysis and Design, Rational Rose, and Software Architecture Consultant and Instructor, since 1994

## **Research Interests and Professional Expertise**

- Human / Computer Interface Design
- Business and Systems Analysis
- Business and Software Requirements
- Business Process Improvement
- Software Architecture
- Software Development Processes, including Iterative, Agile, and Rational Unified Process
- Managing Software Projects
- Object Oriented Analysis and Design of Software
- Unified Modeling Language (UML)

## **Academic / Teaching Experience**

### ***Visiting Faculty***

*Carnegie Mellon University, Information Systems, Pittsburgh, PA, Fall 2006 – June 2009*

- Teach an undergraduate course "Survey of IT Software Architecture"
- Teach a core Information Systems course "Fundamentals of System Development"
- Assist faculty in guiding and reviewing student Senior projects

### ***Faculty Member***

*University of California Extension, Santa Cruz, Public Programs and Corporate Training, Santa Clara CA, July 1997 – June 2003*

- Deliver Object Oriented Analysis and Design and Software Project Management courses to public adult education classes, and privately to a variety of corporate clients

### ***Corporate Trainer and Mentor***

*Wyzzk, Inc., California, July 1997 - present*

- Deliver courses to public adult education classes, and privately to a variety of corporate clients

### ***Program Coordinator, Object Oriented Programming Certificate***

*University of California Santa Cruz Extension, Corporate Training, Cupertino, CA, January 1998 – December 1998*

- Determined consistent content for the courses in the curriculum: Object Oriented Analysis, Object Oriented Design, C++I, C++II, Object Oriented Programming with C++
- Developed standardized Object Oriented Analysis and Object Oriented Design courses for the program
- Developed syllabuses for the C++ I, C++ II, and Object Oriented Programming with C++ courses
- Mentored new instructors in the program
- Recruited new instructors for the program
- Delivered the Object Oriented Analysis and Object Oriented Design courses to corporate clients

### ***Software Engineering Specialist***

*Rational Software, Santa Clara, CA, January 1994 - June 1997*

- Delivered Rational certified courses to corporate clients

### ***Full-Time Instructor of Computer Science***

*Northern Arizona University, College of Engineering, Flagstaff, AZ, September 1984 - May 1986*

### ***Teaching Assistant***

*Southern Illinois University, Mathematics Department, Edwardsville, IL September 1982 - May 1984*

## **Courses Taught**

### Corporate Training

- Object Oriented Analysis
- Software Architecture and Object Oriented Design
- Design Patterns
- Unified Modeling Language
- Writing Business and System Use Cases
- Managing Iterative Projects
- Fairfield & Co. Object Oriented Analysis
- Fairfield & Co. Object Oriented Design
- Rational Object Oriented Analysis and Design (Booch Method, Object Modeling Technique, Unified Modeling Language)
- Rational Requisite Pro
- Rational Rose (Ada, C++, Java)
- Customizing Rational Rose
- Introduction to Object Technology for Managers
- Rational Apex (Ada, C++)
- Customizing Rational Apex
- Rational SoDA with FrameMaker
- Toolsmithing Rational SoDA with FrameMaker
- Introduction to IBM Rational RSM/RSA

### Undergraduate

- Pascal
- Fortran
- C
  - PDP-11 Assembler
  - Unix shell programming
  - Unix internals
- Program Design and Data Structures
  - Operating Systems
  - Survey of Elementary Math
- Pre-Algebra (really remedial Math)
- Algebra
- Survey of Software Architecture
- Fundamentals of System Development

## **Courses Developed**

- Object Oriented Analysis
- Object Oriented Design
- Software Architecture
- Design Patterns
- Unified Modeling Language
- Writing Use Cases
- Managing Iterative Projects
- Introduction to IBM Rational RSM/RSA
- Survey of Software Architecture
- Fundamentals of System Development

## **Industrial Experience**

### ***President and CEO***

*Wyzzk, Inc., California, July 1997 - present*

- Perform contract work in business and system analysis, project requirements, OOAD, UML, software architecture, project management, and implementing software development processes
- Deliver training and mentoring in business and system analysis, software requirements, OOAD, UML, software architecture, design patterns, project management, and RUP to corporate clients, public adult education classes, and undergraduates
- Determine corporate direction and product lines
- Develop partnerships with other similar companies and contractors
- Create and implement all marketing strategies using Internet Marketing techniques
- Sell products and services, write contracts, hire consultants
- Develop and maintain software engineering courses – instructor-led, online, self-study
- Develop software products

*Large contracts:*

Blue Cross Blue Shield North Carolina, October 2007 – October 2009

- Contract Manager for 11 very senior contract Business Analysts for ESP program, a \$300 million enterprise wide legacy modernization program
- Advisor / Researcher to ESP Program Business Requirements Architect on topics such as program requirements, the relationship between program and project requirements, and tracing requirements from corporate business needs through deployment.
- Lead Business/Systems Analyst for team of 5 Analysts on the DXCAR project, the largest project in the ESP program
- Assisted in conversion of DXCAR projects into 5 new projects with new project managers
- Taught UML communication diagrams and their use in software development to system analysts, software architects, designers, lead programmers, and stakeholders on DXCAR project

Island Training Solutions, January 2006 – August 2006

- Developed new hands-on training course “Introduction to IBM Rational RSM/RSA”
- Delivered training courses in OOAD, Rational Rose, Rational Requisite Pro, and Introduction to IBM Rational RSM/RSA
- Developed curriculum for software engineering courses
- Assisted with sales of training products and consulting services

Agilent Technologies, Semiconductor test equipment division, October 2004 – December 2005

- Analyzed hardware systems and wrote requirements for software portion of several related hardware-based projects
- Mentored team of 7 Business Analysts on creating and managing software requirements for hardware-based projects
- Mentored requirements and architecture teams on Rational Unified software development process (RUP), use case realizations, and UML
- Assisted in the development of a customized software development process using RUP, program management and product line techniques for this division of Agilent (about 1500 people distributed in Santa Rosa, CA; Loveland, CO; Hachioji, Japan; Boeblingen, Germany; and offshore development teams.

Ronin International, April 2004-August 2004

- Mentored their Financial Services client in customizing the Rational Unified Process using Agile Modeling techniques
- Mentored Project Architect, Project Manager, Test Manager, Business Analyst and Technical Leads on the use of process, tools, and notations for their jobs
- Analyzed requirements and test cases and suggested improvements

#### Safeway Inc., December 2001-January 2004

- Part of a 15 person Methods group which analyzed software development practices in Safeway IT (about 150 engineers), and used the results of the analysis to customize the Rational Unified software development process (RUP)
- Mentored team members on over 20 projects in the use of the customized RUP and UML. This included the project managers, business analysts, system analysts, architects, designers, and testers
- Designed, wrote, and delivered courses to Safeway IT in Rational Rose, Use Case Development, Software Architecture and Design with UML, and role based RUP training for technical leads

#### The Money Store, June-July 1999

- This was a 5-week project to work with the project team to develop the requirements for a 2 year project, and train the team in Object Oriented Analysis and Design and Rational Rose. The 2 year project was to replace an eclectic set of existing applications with a set of integrated object based applications.
- Analyzed existing systems and database to determine project requirements
- Facilitated Joint Application Development sessions with their project team to develop use cases for the whole project
- Developed an analysis model of the business objects from the use cases and the database schema of the existing applications
- Developed storyboards for key use cases for presentation to the end users
- Developed a high level project plan for the 2 year project, breaking it into smaller projects of approximately 6 months duration each
- Debugged problems installing Rational Rose, and trained the team in the use of Rational Rose
- Delivered a Rational Object Oriented Analysis and Design with UML course to the project team

#### ***Director of Object Technologies***

*Andrews Technology, Inc, San Francisco, CA, March 1999 – April 2001*

- Developed corporate policies and directions as part of the executive committee for the corporation
- Developed policies and directions for Object Technologies and Web Development divisions
- Managed contractors in Object Technologies and Web Development divisions
- Sold training, mentoring, and consulting services to corporate clients
- Delivered training to corporate clients
- Provided short term mentoring in writing use cases, creating analysis models, creating baseline architectures, and planning the iterations to construct software
- Provided guidance in the use of Rose and Requisite Pro
- Mentored new consultants

#### ***Software Engineering Specialist***

*Rational Software Corporation, Santa Clara, CA, January, 1994 - June 1997*

- Provided technical presales and postsales support for Rational's entire product line to a sales team in the Bay Area. Customers included Lockheed Martin, Lawrence Livermore National Labs, Pacific Bell, Andrews Technology, Visa, Oracle, PG&E, Octel Communications, Nortel, and Bank of America.
- Presales support included technical presentations, trade show support, demos of products, and follow up calls. Postsales support included product installs, training on products and methodologies, mentoring, consulting, and account management.
- Provided tool support, training, mentoring, and consulting to customers of the sales team. This included: Object Oriented Analysis and Design (Booch Method, Object Modeling Technique, Unified Modeling Language), Object Oriented Program Management, Introduction to Object Technology, Use Case Analysis, Using Rational Rose (Ada, C++, Java, PowerBuilder, Visual Basic), Customizing Rational Rose, Using Rational Apex (Ada, C++), Customizing Rational Apex, Using Rational SoDA with FrameMaker, Toolsmithing Rational SoDA with FrameMaker.

#### ***Technical Support***

*Rational Software Corporation, Santa Clara, CA, December 1991 - January 1994*

- Provided telephone support of Rational customers and software engineering specialists
- Products supported included the R1000 hardware and operating system, Delta development environment, Rational Apex and Rational SoDA

- Developed bug fixes for the token management subsystem in Delta
- Lead support engineer for Rational SoDA on FrameMaker
- Presented internal training to Rational employees on UNIX and netiquette
- Provided trade show support for Rational Apex, Rational SoDA, and Rational Rose by setting up and running demos of the products in the booth

### ***Producer***

*Saratoga Drama Group, Saratoga, CA, July 1991 - October 1991*

- Managed 16 staff and their crews to deliver a musical theater production on time and budget
- Located and furnished facilities for rehearsal and performance
- Hired and supervised technical people for lighting, set construction, stage management, stage properties/special effects, sound, and costuming
- Hired people for lobby decorating, catering, and house managing
- Developed and implemented marketing, advertising, and sales plans

### ***Business Manager / Computer Analyst***

*Ballou Photography, Mountain View, CA, August 1990 - July 1991*

- Analyzed the daily activities and financial records of the company and recommended actions to reduce costs and increase profits
- Created and implemented business and marketing plans
- Designed a computer system to automate office functions
- Assisted in the daily activities of the company, including processing and printing film, beauty makeovers, assisting the photographer, and sales
- Taught workshops on wedding planning
- Included in Who's Who in American Small Businesses 1990

### ***Scientific Programmer Analyst***

*Lockheed Missiles and Space Co, Sunnyvale CA, June 1986 - August 1990*

- As part of the compiler group, designed a project specific language
- Analyzed, designed, and built an interpreter back end to the compiler
- Analyzed, designed, and built system level job management and scheduling functions
- Assisted junior engineers in learning Ada and with code design
- Performed unit testing, and system integration
- Designed an Object Oriented format of the 2167a documentation specification
- Presented design presentations to the customer and peers

### **Systems / Applications**

Sun SparcStation Solaris, Sun/OS; RS/6000 AIX; DEC VAX VMS, Microsoft Windows, DOS; Rational R1000 Delta; Rational: Rose, Requisite Pro, SoDA, Apex, Unified Process, Suites; Microsoft Office; Adobe Photoshop, Frame, Lightroom; Quick Books; MySQL; WordPress; Camtasia

### **Languages**

Ada, C, C++, FORTRAN, HTML, XML/DTD, Java, Pascal, Python, Perl

### **Publications**

- Schneider, Geri, and Winters, Jason P.: "An Introduction to Use Cases", Software Engineering Volume 1, IEEE Computer Society, 2002: 299-308, ISBN 0-7695-1555-X
- Schneider, Geri and Winters, Jason P. "Applying Use Cases (Second Edition)", Polish Edition, Wydawnictwa Naukowo-techniczne, 2004, ISBN 83-204-2943-9
- Schneider, Geri and Winters, Jason P. "Applying Use Cases (Second Edition)", Chinese Edition, China Machine Press & CITIC Publishing House by arrangement with Addison Wesley, 2002, ISBN 7-111-10853-1/TP
- Schneider, Geri and Winters, Jason P. "Applying Use Cases Second Edition: A Practical Guide", Addison Wesley, 2001, ISBN 0-201-70853-1
- Schneider, Geri and Winters, Jason P. "Applying Use Cases", Japanese Edition, Addison Wesley, 1998, ISBN 4-89471-186-9

- Schneider, Geri and Winters, Jason P. "Applying Use Cases: A Practical Guide", Addison Wesley, 1998, ISBN 0-201-30981-5

### **Invited Seminar Presentations**

- Modeling Web Applications in the Unified Modeling Language, UML<<2000>>, York England, September, 2000

### **Online Articles**

Weekly Tips for Business Analysts: <http://www.writingusecases.com/wordpress/index.html>

Weekly Tips for Business Owner/Managers: <http://www.realizeyourbusiness.com/wordpress/index.html>

Articles are also published at: <http://www.ezinearticles.com> and <http://www.requirementsnetwork.com>

### **Academic Honors and Awards**

- Who's Who in American Small Business - 1991
- Teaching Assistant, Southern Illinois University – 1982-1984
- Who's Who Among American College Students – 1982
- Pi Mu Epsilon (treasurer) - 1982
- Presidential Scholarship, Southern Illinois University – 1978-1982
- National Honor Society – 1977-1978
- National Merit Finalist - 1978
- PTA Scholarship - 1978
- Who's Who Among American High School Students - 1978

### **Professional Affiliations**

- Member, Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- Member, Association for Computing Machinery (ACM)
- Member, Amateur Radio Relay League (ARRL)
- Member, Amateur Radio Emergency Service (ARES)

### **Hobbies**

- Produce, direct, and participate in musical theater – shows such as “Into the Woods”, “Nunsense”, “A Funny Thing Happened on the Way to the Forum”, and “Fiddler on the Roof”
- Ham radio
- Emergency services

### **Service**

- Member of Board of Directors, Saratoga Drama Group, 1989-90.
- Curriculum committee, Northern Arizona University, 1984-1986
- Faculty advisor, Society of Women Engineers (SWE), Northern Arizona University, 1984-1986