

# Elaine Yale Weltz

Engineering and Computer Science

Seattle Pacific University

Seattle, WA 98119

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## EDUCATION

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**Seattle University**, Seattle, WA 9/1986 – 6/1989

**M.S.E.** (Master of Software Engineering): June 1989.

Masters Project: "Brainstorm: Software for Computer Assisted Collaborative Work".

**Seattle Pacific University**, Seattle, WA 1/1983 – 6/1984

**B.S.** in Computer Science, *summa cum laude*: June 1984

Course work in computer science and business

**University of Southern California**, Los Angeles, CA 9/1976 – 6/1978

**M.Mus.** in Piano Accompaniment: June 1978

**Seattle Pacific College**, Seattle, WA 9/1970 – 5/1975

**B.A.** in Music Theory and Literature, *summa cum laude*: May 1974

Honors Project: "Lieutenant Kije" by Serge Prokofieff – orchestration for Wind Ensemble

**B.A.** in Music Education: May 1975

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## PROFESSIONAL CERTIFICATION

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- IEEE Computer Society Certified Software Development Professional (CSDP). 2007 – 2010, 2015 -
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## AWARDS

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- Seattle Pacific University Faculty Servant Award, 2004
  - Elected to Pi Kappa Lambda Music Honorary, University of Southern California, 1978
  - Elected to Alpha Kappa Sigma Academic Honorary, Seattle Pacific College, 1974
  - *Who's Who in American Universities and Colleges*, 1974
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## TEACHING EXPERIENCE

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At Seattle Pacific University, Seattle, WA:

**Assistant Professor of Computer Science** 1990 –

**Chair of Computer Science** 2007 –

Teaching and advising in computer science: Problem Solving and Programming (CSC 1230), Business Programming/Programming Techniques (2221), Systems Design (3150W), Applications Programming (3220), Data and File Structures (2430 / 3410), Software Engineering (415n), Database Management (4410), Ethical and Social Issues in Computer Science (4800 / 3899W).

As chair: oversight of curriculum and scheduling; involved in faculty professional development and review; departmental planning. Member of College of Arts and Sciences Chairs committee.

**Coordinator of Evening Computer Programs** 1985 – 2003

Oversight of computer science evening schedule; advising of evening and part-time computer science majors; liaison with Boeing and US West training divisions.

**Instructor in Computer Science** 1984 – 1990

Teaching in the day and evening computer science programs.

At Grandview Junior High School, Grandview, WA:

**Music Director** 1975 – 1976

Directed two bands and two choirs; taught general music

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**OTHER WORK EXPERIENCE**

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**Wholesale Music Sales; Retail Manager**, Capitol Music Company, Seattle, WA, 1978 – 1982

Wholesale and retail music sales and order fulfillment; purchase of sheet and book music; organization of school, private teacher and church music workshops; management of a staff of seven (at main retail outlet and two suburban locations)

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**PUBLICATIONS AND PRESENTATIONS**

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- Faculty Advisor for Student Poster/Demonstration: “oChem Hammer” (A software tool for practicing inorganic chemistry reactions). First Prize, Student Poster Competition, Eleventh Annual CCSC Northwestern Conference. October, 2009.
- Panel Presentation: “Computing Curriculum 2001: How Does This Report Affect the Computing Science Curricula?” Fifth Annual CCSC Northwestern Conference. October, 2003.
- Martin, C.D. and Wertz, E.Y. From Awareness to Action: Integrating Ethics and Social Responsibility across the Computer Science Curriculum (Third Report of the Impact CS Steering Committee). *Computers & Society*, Vol. 29, no. 2, May, 1999.
- Wertz, E. Y. A Staged Progression for Integrating Ethics and Social Impact Across the CS Curriculum. *Computers & Society*, Vol. 28, no. 1, March, 1998.
- Wertz, E. "Ethics and Social Issues in Computer Science". ASEE/IEEE Frontiers in Education Conference. November, 1997.

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**PROGRAMMING LANGUAGES AND SOFTWARE TOOLS**

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**Programming Languages** – Assembler, BASIC, C, C++, C#, COBOL, Pascal, Visual Basic

**Database Management** – Microsoft Access and SQL-Server, MySQL, Oracle

**Software Tools** – VISIO, Balsamiq, Visual Studio 2013 Modeling Tools

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## PROFESSIONAL MEMBERSHIPS AND SERVICE

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ACM (Association for Computing Machinery)

ACM Special Interest Groups (SIG): Computers and Society; Computer Science Education; Software Engineering

CCSC (The Consortium for Computing Sciences in Colleges)

Northwestern Conference Chair - 2015

Northwestern Conference Papers Chair - 2002, 2003, 2006, 2010

Part of Host Steering Committee 2002

Northwestern Conference Reviewer - 2005 and 2007

Northwestern Conference Session Chair – 2012

Northwestern Conference Chair – 2015

IEEE (Institute of Electrical and Electronics Engineers) – Computer Science Affiliate

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## UNIVERSITY SERVICE

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Accompanist for Seattle Pacific University Concert Choir, 9/1985 – 6/1991 and 9/1992 – 6/2015

Faculty Governance:

Curriculum Committee, 9/2012 – 12/2014

Admissions, Advising and Retention Committee (AARC), 9/2002 – 6/2006; Chair, 2004 – 2006

Faculty Council

As chair of AARC: 9/2004 – 6/2006

At-Large Member: 6/1994 – 6/1996

Faculty Secretary: 9/1992 – 6/1993

Undergraduate Policies and Evaluation Committee (UPEC), 6/1996 – 6/1999

General Education Subcommittee, 9/1999 – 6/2003

University Scholars Subcommittee (Chair), 9/1999 – 6/2001

Interim Chair and member of Faculty Council, Spring 1999

Adult Learner Committee, 9/1986 – 6/1992 & 9/1993 – 6/1994

Intercollegiate Athletics Committee (IAC), 10/1990 – 6/1991

Social Activities Committee, 9/1985 – 6/1988. Co-chair, 1987– 88

Short-term Committees and Task Forces:

Ways of Knowing Science Committee, 2011-12

University-wide Accreditation Steering Committee, 6/1995 – 4/1996

Learning Resources Review Task Force, 6/1995 – 12/1995

Adult Learner Review Task Force, 9/1995 – 6/1996

SPU 2000 Long-Range Planning Committee, 1992 – 94.

Restructuring Transition Team, 1993 – 94.

Transfer Philosophy & Guidelines Task Forces, 1992 – 94.

Curricular:

Information Systems Management Graduate Program Planning Committee, 1993-96