

Alan Fowler

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Education

University of Washington, Tacoma, WA 2008
M.S. in Computing and Software Systems

University of Washington, Tacoma, WA 2005
B.S. in Computing and Software Systems
Honors: Faculty Honors

Teaching Experience

University of Washington, Tacoma, WA 2008 – Present
Lecturer – TCSS 101, 142, 143, 305, 342, 437, TINST 310, TCORE

Support for graduate student independent study of object-oriented design patterns. (8 students) 2012 – Present

Supervision of student seminar facilitators – Winter 2009
Provided guidance to four student facilitators to assure high quality student led problem solving seminars.

Seminar Facilitator – TCSS 390C, 390D 2006 – 2008
Planned, and conducted small group seminars focused on developing student problem solving skills. Developed sets of challenging questions; monitored student groups during problem solving sessions; provided motivation and assistance as necessary to guide groups to discover solutions to problems.

Student Mentor 2006
Assisted CSS students with core courses by explaining concepts, debugging code, and giving advice on improving grades.

Related Experience

University of Washington, Tacoma, WA 2006 – 2014
K-12 Outreach Instructor
Provided robotics instruction to middle school and high school students as part of the Math, Science, and Leadership (MSL) summer outreach program

United States Army

1983 – 2003

Duties included various positions providing hands-on performance-oriented instruction:

Instructor/Writer - Aberdeen Proving Grounds, MD (6 years)

Preparation for this position included formal training to acquire the Army's instructor qualification. This position involved the development of training materials and tests to doctrinal standards and classroom and hands-on instruction in troubleshooting, maintenance, and repair of weapons systems.

Inspector/Instructor - Fort Lewis, WA (2 years)

This position involved training soldiers to operate weapons storage and maintenance facilities and inspections of those facilities.

Publications and Papers

An Evolved Fuzzy Logic System for Fire Size Prediction

North American Fuzzy Logic Information Processing Society
Annual Conference, Cincinnati, Ohio

2009

Memberships

Association for Computing Machinery

Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines

Service

Undergraduate Computer Science and Systems Committee: As a member of this committee I have contributed to the ongoing improvement of curriculum and teaching practices. I am also a regular attendee of the quarterly joint University of Washington, Tacoma and Community & Technical College (UWT-CTC) faculty meetings.

Math, Science, and Leadership (MSL) K-12 outreach program: I have supported this program each summer starting in 2006 and intend to do so again this summer. This is a 6 week volunteer commitment each summer; 3 weeks of preparation and 3 weeks working with middle school students.

Faculty adviser for the Upsilon, Pi, Epsilon (UPE) honor society: I provide continuity for the campus chapter of UPE by organizing quarterly induction ceremonies for students with high scholastic achievement in Institute of Technology degree programs.