

THOMAS WRENSCH

3054 Edison Ct, Boulder CO 80301
541-740-3952 twrench@gmail.com

PROFESSIONAL EXPERIENCE SUMMARY

25+ years experience in the software industry as developer, researcher, entrepreneur and educator. Design and development work with and using semantic analysis techniques and methods. Considerable experience with Java, Embedded Languages, Linux, Smalltalk, Javascript.

PROFESSIONAL AND ACADEMIC EXPERIENCE

Google, Boulder CO *Senior Software Engineer*

2011 – 2014

Backend system development for payment processing, integrating with external vendors, and financial reporting. Java/Eclipse, Linux, various Google-specific systems and tools.

Proposal Solutions Group, Corvallis OR *Software Engineer*

2010 – 2011

Web-based search and analysis software for finding government solicitations and aiding in writing proposals. Uses semantic technology developed by Eduworks. Java/Eclipse, Apache, Linux, CouchDB backend. AJAX front end.

Eduworks Corporation, Corvallis OR *Researcher Engineer*

2007 – 2009

Methods to measure reuse in the National Science Digital Library including algorithms for measuring image similarity. Semantic processing engine for metadata extraction and document similarity measures. Java, XML, GUI development, HTML/CSS/Javascript

Black Dog Innovation, Corvallis OR *Co-founder*

2006 – 2007

Developed and delivered innovative thinking workshops. Created prototype software for many product concepts. Smalltalk, Lua, HTML/CSS/Javascript.

University of the Pacific, Stockton CA *Asst Professor of Computer Science*

2001 – 2006

Teaching included CS1, Programming Languages, Theory, Discrete Math, Algorithms and Human-Computer Interaction. Research in Expertise Management and domain-specific languages.

Independent Consultant *Various*

1989 – 1995

Object-oriented technology workshops at IBM, USAA, Eastman Chemical, MITRE, others. Design consulting and workshops at Eaton, IBM. Technical mentor for major projects at Prudential Insurance (1993) and Bank of America (1991). Designed domain-specific languages: PruPolicy (Prudential Insurance), Flora (Educorp and Delphi Software). Smalltalk/V, Java.

Johnson Controls, Milwaukee WI *Research Engineer*

1986 – 1988

TIE Expert system shell. Proactive Human-Computer interface for managing building control systems. Common Lisp on Symbolics and LMI Lisp Machines.

Greene Manufacturing, Racine WI *Programmer / Analyst*

1981 – 1985

Developed business software for payroll, manufacturing, and inventory. RPGIII, IBM System-38.

EDUCATION

Ph.D. University of Colorado Computer Science, 2002

BS University of Wisconsin-Parkside Computer Science, 1986

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SELECTED PUBLICATIONS

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Books

Gene Korienek, Tom Wensch. *What Happens When People Think*, Black Dog Innovation, Corvallis, Oregon, United States. 2007.

Thomas Wensch. *Programming Computationally-Enhanced Craft Items*, Ph.D. dissertation. University of Colorado at Boulder, Computer Science. 2002.

Gene Korienek , Tom Wensch , Doug Dechow, *Squeak: a quick trip to ObjectLand*, Addison-Wesley Longman Publishing Co., Inc., Boston, MA, 2001 (Also translated into Japanese)

Gene Korienek and Tom Wensch. *A Quick Trip To ObjectLand*, Prentice-Hall, 1991.

Papers

Glenn Blauvelt , Tom Wensch , Michael Eisenberg, *Integrating craft materials and computation*, Proceedings of the 3rd conference on Creativity & cognition, p.50-56, October 11-13, 1999, Loughborough, United Kingdom

Tom Wensch , Glenn Blauvelt , Mike Eisenberg, *The rototack: designing a computationally-enhanced craft item*, Proceedings of DARE 2000 on Designing augmented reality environments, p.93-101, April 2000, Elsinore, Denmark

Thomas Wensch , Michael Eisenberg, *The programmable hinge: toward computationally enhanced crafts*, Proceedings of the 11th annual ACM symposium on User interface software and technology, p.89-96, November 01-04, 1998, San Francisco, California, United States.

Technical Reports

Michael Doherty, Simranjit Kaur, Thomas Wensch and Ravi Jain,: Managing Knowledge and Data to Support Technology Transfer, *International Journal of Technology Transfer and Commercialization*, 4(3) 2005.

Michael Doherty, Thomas Wensch, Simranjit Kaur, Ravi Jain, and Marina S. Lau: *Implementation of a Knowledge-Based System for the Identification of Environmental Expertise*, University of the Pacific Technical Report TEPC-2003-2. 2003.

Thomas Wensch, Ravi Jain, Michael Doherty, Simranjit Kaur and Matt Hoffman: *Implementation of an Environmental Expertise Database*, University of the Pacific Technical Report TEPC-2003-1. 2003.