

WILLIAM L HONIG

SUMMARY CURRICULUM VITAE

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Selected Works: http://ecommons.luc.edu/do/discipline_browser/author_articles?discipline_key=142&author_display=William%20L.%20Honig
Google Scholar Page: <http://scholar.google.com/citations?user=QIX4SoAAAAJ>
ACM Digital Library Author Page: http://dl.acm.org/author_page.cfm?id=81339505525

EDUCATION

Northwestern University, Evanston, IL, **Ph.D. in Computer Science** 1975
Dissertation: "A model of data structures commonly used in programming languages and data base management systems", Advisor: Benjamin Mittman
Full text: http://ecommons.luc.edu/cs_facpubs/61/

University of Chicago, Chicago, IL, **M.S. in Information Systems** 1971
Areas of concentration: formal languages, compilers

University of Michigan, **B.S. with Distinction in Mathematics** 1969
Areas of concentration: programming languages, operating systems
Honors: William J Branstrom Prize in Mathematics

ACADEMIC EXPERIENCE

Associate Professor, Department of Computer Science, Loyola University Chicago 2002 – present
Visiting Scientist, Software Engineering Institute (SEI), Carnegie Mellon University 2009 – 2010
Chairperson, Department of Computer Science, Loyola University Chicago 2002 – 2006
Visiting Professor, Dept. of Mathematical & Computer Sciences, Loyola Univ Chicago 2001 – 2002
Director of Research, Center for Information Management and Technology 2001 – 2004
Adjunct Professor, Northwestern University 2001 – 2002

PROFESSIONAL EXPERIENCE

Vice President, Director, Motorola, Inc, Hong Kong, Illinois, Arizona, Massachusetts 1993 – 2001
Research and development of hardware and software for 3rd generation mobile systems, Iridium satellite network, integrated voice, data, video networks.
Implemented Software Engineering Institute (SEI) Capability Maturity Model (CMM) system quality processes.

Director, U S West Advanced Technologies, Colorado 1988 – 1993
Define strategic vision and evolution plans for domestic and international telecommunications network; create technology approach for new businesses.
Develop network and applications for voice, data, and video services.

Chief Scientist, Director, GTE Corporation, Virginia, Florida 1979 – 1988
Research and development packet switching systems, language compilers, network control systems; modernization and consolidation of internal information systems and data.

Manager, International Telephone and Telegraph, Connecticut, Belgium 1977 – 1979

Research and development of System 12, world's most successful network switching system; emphasis on software architecture and tools. Serve on standards bodies.

Member Technical Staff, Bell Telephone Labs, Illinois, New Jersey 1969 – 1977
Design and development of software and development tools for network switching systems; introduced structured programming and high level languages for real time systems.

RESEARCH AND SCHOLARSHIP

Active throughout both professional and academic career in development of higher level programming languages and tools for real time systems, representation of data and hardware in software, formal system requirements definition, and quality metrics and processes for both embedded software and business information systems.

RECENT EXTERNAL GRANTS AND AWARDS

Google, Inc App Inventor Curriculum Project, PI	2011 – 2012
Course concepts to engage diverse students in mobile app creation. \$10,000	
National Science Foundation, BPC-A, Co-PI	2008 – 2010
Improving Metropolitan Participation to Accelerate Computer Throughput and Success, \$300,000	
National Science Foundation, ExCEL, Senior Staff	2008 – 2011
Excellence in Computing at Every Level to improve STEM Education. \$600,000	
Hewlett Packard, Technology for Teaching, PI	2007 – 2008
Learning the Wonders of Computing with Wireless Collaboration. \$74,000	
AT&T, Community Engagement, PI	2005 – 2006
CampInfinity summer science day camp for young women. \$25,000	
Defense Advanced Research Projects Agency, Life Sciences Research, Senior Staff	2003 – 2005
Education paradigms for software engineering.	

RECENT RELEVANT PEER REVIEWED PUBLICATIONS

W. Honig, Teaching and Assessing Programming Fundamentals for Non Majors with Visual Programming, ACM SIGSCE ITiCSE Annual Conference on Innovation and Technology in Computer Science Education, 40-45 June 2013.

E. Brand, W. Honig, M. Wojtowicz, Intelligent Systems Development in a Non Engineering Curriculum, ACM SIGSCE ITiCSE Annual Conference on Innovation and Technology in Computer Science Education, 48-52 June 2011.

W. Honig, Teaching Successful "Real-World" Software Engineering to the "Net" Generation: Process and Quality Win! Proceedings of the 21st IEEE-CS Conference on Computer Software Engineering Education and Training (CSEE&T 2008) 14-17 April 2008.

W. Honig and T. Prasad, "A Classroom Outsourcing Experience for Software Engineering Learning", ACM SIGSCE ITiCSE Annual Conference on Innovation and Technology in Computer Science Education, 25-27 June 2007.

TEACHING

Extensive teaching experiences both in industry and academia. Taught industry courses on programming languages, system development process and standards, quality management. Success bringing real world industry experiences into the academic teaching. Academic teaching experience in programming, system analysis and design, software engineering, quality and testing, mobile and embedded systems, telecommunications, networks.

SELECTED RECENT TEACHING ACCOMPLISHMENTS

Robotics Systems and Development	2011 – 2013
New course: theory and system development for humanoid and tracked robots.	
Democratic Mobile App Development	2011 – 2012
New course: Non majors develop quantitative knowledge skills developing complete mobile apps.	
Microcontroller Hardware and Systems	2010 – 2012
New course and student research: hardware design and Arduino systems.	
Mobile Systems Development	2007 – 2010
New course: Wireless Architecture and Android, Window Mobile, Symbian mobile app development.	
Independent Study and Project Courses	2001 – present
Regularly supervise advanced students in directed study and implementation: gaming tools and mathematics, embedded systems, robotics, data analysis.	

SELECTED RECENT SERVICE CONTRIBUTIONS

Chair, Graduate Curriculum Committee	2011 – 2012
Update and create new department programs to provide accelerated prerequisites to entering graduate students, create online degree program	
Faculty Advisor, Student Organizations and Campus Diversity	2007 – present
Advise international student organizations, university international office, university diversity office.	
Judge, Alpha Sigma Nu Jesuit Book Awards	2005 – present
Evaluate and recommend books in sciences and mathematics.	
Software Engineering Institute Summer Program	2007
Organized and chaired summer faculty workshop to broaden use of TSP/PSP.	
Chairperson, Department of Computer Science	2002 –2006
First chair of new department; separate former combined math and computer science department; created new degree offerings to meet professional needs while maintaining academic rigor.	

MEMBERSHIPS

Association of Computing Machinery (ACM)
 Institute of Electrical and Electronics Engineers (IEEE) Computer Society, Communications Society