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Curriculum Vitae

Scott P. Overmyer, PhD

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Education

PhD - Information Technology (Information & Software Systems Engineering) - 1995, George Mason University, Fairfax, VA. Thesis topic: *A Methodology for the Representation of Requirements Specifications for Large-Scale Systems Using Multimedia Techniques*

MS - Industrial Engineering/Human Factors - 1983, University of Iowa, Iowa City, Iowa. Thesis topic: *The effects of irrelevant stimulus attributes on retrieval time for color and shape.*

BA - Psychology - 1979, University of Colorado, Colorado Springs, Colorado

Academic Experience

August, 2016 to Present – **Dakota State University**, Madison, South Dakota

Adjunct Faculty (online) in Software Engineering. Developed and taught 2 sections of CIS470 – Introduction to Software Engineering. I will continue to teach on campus, starting in January of 2017 as an Instructor.

January, 2016 to January, 2017 – **Bay State College**, Boston, Massachusetts

Program Chair – Information Technology. I am responsible for the AS and BS in I.T. This involves curriculum design and development, teaching, quality assurance, student advising, and staffing. I am transitioning to remote, part-time status in January 2017 while I transition to Dakota State University on campus. I was brought in to get BSC through NEASC accreditation, and design and build the I.T. program and concentrations.

August, 2015 to December, 2015 – **Northwest Missouri State University**, Maryville, Missouri.

Lecturer – Department of Mathematics, Computer Science and Information Systems
I am responsible for teaching undergraduate and graduate computer science courses as well as performing service activities. I also have a continuing active research program in conversational and pedagogical agents. This was a contract with no guarantee of renewal.

March, 2014 to May, 2015 – **Mount Washington College**, Manchester, New Hampshire

Vice Provost and Dean of the School of Information Technology

I was responsible for leading the development of new information technology degree programs for the MWC National Online. I was also responsible for helping to build, staff, coordinate vendors and partners, and provide quality assurance for these nationally offered online degree programs. This program is on the cutting edge of Information Technology education provision, providing low-cost, self-directed, and eventually competency-based education for the future workforce. My efforts in program development and recruiting the right staff have turned this program from a 2nd quality online program, into a first-quality Information Technology educational program that is literally as good as it gets. Unfortunately, I and many others were laid off on 5/19/2015, due to the abrupt and premature closing of the College by the Kaplan Higher Education Group.

October, 2011 to February, 2014 – **Nazarbayev University,** Astana, Kazakhstan

Professor – Computer Science
Acting Chair, Department of Physics
School of Science and Technology
I was primarily responsible for teaching and building a new program in Computational Sciences for NU. I taught Database, SA&D, OOA&D, C, Java, Intro to CS, Financial Analysis of Software. I received two funded research grants in Pedagogical Agents for Teaching, and was on the Faculty Senate, Leadership Council of SST, Allocations Committee (Research funding decisions), and founder of ACM Student Chapter at Nazarbayev University. In addition, as Acting Chair of Physics, I guided the department through a very difficult time, while a search for a permanent chair was underway.

August, 2006 to September, 2011 – **Baker College**, Flint, Michigan

Professor and Director – MSIS Program
Baker College Center for Graduate Studies
I was responsible for teaching and building a new program in Information Systems, completely online, at the graduate level. The program went from 10 to 80 students in 4 years. I built and managed the program, managed my NSF grant (Baker College's first, now completed), and supervise both full-time and adjunct faculty from my home office in South Dakota. On my initiative, the MSIS program is accredited has been designated a Professional Science Master's Program by the Council of Graduate Schools.

August, 2004 to July, 2006 – **South Dakota State University**, Brookings, South Dakota

Associate Professor
Department of Electrical Enginering, Computer Science, and Software Engineering
I was responsible for teaching and conducting research in software engineering, and building the undergraduate software engineering program. Unfortunately, this program was terminated by the State of South Dakota due to budgetary considerations.

January, 2001 to August, 2004 – **Massey University**, Albany, Auckland, New Zealand

Associate Professor
Institute of Information and Mathematical Sciences (IIMS)
Discipline Leader – Information Systems Subject Area
Major Co-ordinator – Software Engineering Major – College of Engineering
I was responsible for teaching and conducting research surrounding the analysis and design of information systems and software engineering. In addition, I was industry liason for the Institute and the Institute representative on the Business Initiatives Group for the Albany Campus.

September, 1997 to December, 2000 - **Drexel University**, Philadelphia, PA

Associate Professor
College of Information Science and Technology
I was responsible for teaching and conducting research surrounding the analysis and design of information systems and software engineering. The courses I taught include: Information Systems Analysis and Design - OOAD (INFO 620), Requirements Engineering (INFO 627), Human-Computer Interaction (INFO 609), Software Measurement (INFO 630). I was also the only untenured member of the Finance Committee of the Faculty Senate, which was rather risky, but interesting. I have taught continuously for Drexel Online since 1997, which continues to this day.

September, 1995 to August, 1997 - **University of Maine**, Orono, ME

Assistant Professor of MIS & Cooperating Assistant Professor of Computer Science: I was responsible for teaching and conducting research regarding management information systems in the College of Business Administration. Courses that I taught include: Decision Support Systems, Introduction to Management Information Systems. Also funded to perform research for the National Center for Geographic Information and Analysis specializing in Human-Computer Interaction with Geographic Information Systems (Summer, 1995).

August, 1992 to June, 1995 - **Minot State University**, Minot, ND

Assistant Professor: I was responsible for developing courses, teaching, and conducting research in information systems in the College of Business. Courses include: Systems Analysis and Design, Human Aspects of Information Systems (HCI), Telecommunications Systems and Networking, Database Management Systems, Introduction to Information Processing. This was my first tenure-track faculty position at the university level.

August, 1982 to July, 1983 - **University of Iowa**, Iowa City, IA - Graduate research assistant - College of Engineering – As a graduate student, I was the manager of human factors computer facility in the College of Engineering, which served as Dr. J. Richard Simon's cognitive lab.

August, 1981 to July, 1982 - **University of South Dakota** - Graduate research assistant - Human Factors Lab. This was my first graduate school experience in Human Factors.

Commercial Experience

November 2006 to (likely) December 2015 - **Chateau Sylvania Vineyard and Winery** - Toronto, SD
Owner.

October 2000 to 2004 - **Scotto's Italian-American Deli and Grocery** - Albany, Auckland, NZ
Owner.

March, 2001 to 2002 – **Esphion, Ltd.,** E-Centre, Albany, Auckland
Consultant: Web site design, software engineering assistance

June, 1996 to 2000 - **Trefoil Corporation**, Orono, ME

Consultant: Responsible for requirements engineering on the U.S. Department of Labor Occupational Network (O*NET) Database and Development Toolkit. Currently leading development of the Operational Concept Document and associated requirements for the system development toolkit for the U.S. Government's electronic replacement of the Dictionary of Occupational Titles.

October, 1991 to August, 1992 - **DCS Corporation**, Alexandria, VA

Senior Scientist: Responsible for developing usability evaluation plans for U.S. Army Counter-Air command & control systems. Also responsible for contributing human engineering expertise and information systems engineering expertise to proposals and current contracts. Contributor to Software Operational Test and Evaluation Plans (SOTEP) for Army Operational Test and Evaluation Command (OPTEC).

January, 1990 to February, 1992 - **George Mason University**, Fairfax, VA

Research Instructor: Center of Excellence in Command, Control, Communications & Intelligence. Responsible for technology research in the areas of rapid prototyping, system and software requirements analysis, and human-computer interface design. Responsible for CASE tools collection and maintenance, guest lectures on rapid prototyping and HCI design, and proposal writing and research marketing.

April, 1989 to January, 1990 - **CONTEL Technology Center**, Fairfax, VA

Member of the Technical Staff: Responsible for technology research in the areas of rapid prototyping, voice/speech input and output, and human-computer interface design. Assigned as CTC consultant to CONTEL Federal Systems due to my background in federal and defense systems.

April, 1988 to April, 1989 - **TRW Federal Systems Group**, Fairfax, VA

Manager - Research and Technology Center - TRW Systems Division.

Provided human factors, requirements engineering, human-computer interface design, rapid prototyping, systems engineering, marketing and other support to business units within Systems Division. Supported numerous proposal efforts; provided extensive briefings on iterative system design methodologies, and provided hardware installation and maintenance in my facility.

November, 1987 to Present - **User-System Interface Design Consultants (USIDC)**.

I am a private consultant in, requirements analyses, rapid software prototyping modeling and simulation and interactive system design, development and installation. (Software and hardware systems.)
Some of my contracts were with: TRW, CONTEL Federal Systems, Federal Bureau of Investigation, CoGenTex.

August, 1983 to October, 1987 - **TRW Defense Systems Group**, Colorado Springs, CO; Redondo Beach, CA; Omaha, NE; Seoul, Korea; Fairfax, VA.

I accepted a variety of assignments on government programs and Independent Research and Development (IRAD) efforts, leading to a position as Manager of the Command Support Division Rapid Prototyping Facility from 1985 - 1987. One of my most interesting tasks was performing Human Factors and Requirements Engineering including human-computer interface design on a number of large-scale C3I information systems. In addition to the project work and lab management, I was principal investigator for over $600,000 in User Engineering and Rapid Prototyping Internal Research and Development projects. Some of my more interesting projects were: SPADOC IVb, CCPDS-R, American Airlines Ops Center Design, and the SACCCU.

Honors/Awards

August, 1996 - Technical Program Chair and Co-Chair - EWHCI'96 - East-West Human-Computer Interaction Conference - Moscow, Russia

Summer, 1994 - NASA/ASEE Summer Faculty Fellowship - Selected for research award at Johnson Space Center, Flight Crew Support Division, Human-Computer Interaction Laboratory. Research project was to develop the user interface to a new video control system which allows crew members to configure audio and video equipment to record and view events, and to downlink events from the Space Shuttle to the ground.

Summer, 1993 - NASA/ASEE Summer Faculty Fellowship - Selected for research award at Johnson Space Center, Flight Crew Support Division, Human-Computer Interaction Laboratory. Research project was to evaluate the manner in which non-routine maintenance procedures are developed for Space Station, and to design and evaluate the HCI to an automated system (MILP) to assist in this process.

Member (1993 to 1995), Board of Directors - Center for International Business - Minot State University

Co-Chair - ITaP'93 - Information Technology and People - 1993, Moscow, Russia.

Grants and Contracts

30-March-2013 – Teaching Creative Systems Problem Solving using Synthetic Communities ofPractice (SCoP) – Bridge Funding – Nazarbayev University - $30,000 (Total grant allocation $68,000)

5-May-2012 – 3D Virtual Worlds for Teaching – Seed Grant – Nazarbayev University - $25,000

1-January-2010
Improving the Quality and Efficiency of the Federal Workforce by combining Telework, Performance Metrics, and Life-Long Learning
IBM Center for the Business of Government, $20,000

1-October-2007 to 30-September-2008
Establishing Virtual Worlds as Contextual Basis for an IT Curriculum
National Science Foundation, Award #0741700, $69,938

1-March-2005 to 30-June-2006
Specification and Design Defect Identification via Rapid Prototyping
NASA-EPSCoR Program Initiation Grant (PIG), $17,715 (including matching funds)

25-July-2003
Fund for Innovation & Excellence In Teaching (FIET) – Massey University
Virtual Worlds for Teaching Systems Analysis, $9,500

1-August-2002 to 30-December-2002
Subcontractor – North Shore Schools Net program – A support program for primary and secondary schools in the Auckland Area, $6,000

1-December-1999
Project Manager - soccerlife.com, Contract with Bluestone Consulting, $18,000.

1-July-1999
Contract - Pennsylvania Governor's School for Information Technology, Pennsylvania Department of Education, $250,000 per year for initial 2 years, with our option to continue indefinitely ($300,000 second year budget).

1-October-1994 (added to existing grant 1-September-1998)
Co-Principal Investigator – "Human Resources for Information Systems Management" W. K. Kellogg Foundation, $1,100,000.

1-September-1997

Principal Investigator - Evaluation Contract "Design Expert: Knowledge-Based Software Engineering" CoGenTex/USAF Rome Laboratories, $162,296.

1-October-1996
Egenhofer, Max J. & Overmyer, Scott P. "Multi-modal Spatial Querying" National Science Foundation, $482,606 (est total).

Teaching/Lecturing

2014 – 2015 – Mount Washington College
 Vice Provost and Dean, School of Information Technology
 Introduction to Information Technology (individually redeveloped from scratch)
 Database Design I (individually redeveloped from scratch)
 Database Design II
 Java Programming

2011- 2014 – Nazarbayev University – Astana, Kazakhstan
 Professor – Computer Science

 Introduction to Computational Sciences
 Fundamental of Programming (with C)
 Introduction to OO with Java
 Systems Analysis and Design
 Database and Client-Server
 Human-Computer Interaction
 Object-oriented Analysis and Design (Spring 2014)
 Software Program Management (Spring 2014)

2006-2011 - Baker College, Center for Graduate Studies
 Director/Dean - MSIS Program, Baker College Center for Graduate Studies

 Management Information Systems Seminar (Graduate - MIS501)
 Information Security (Graduate - MIS601)
 System Analysis and Design (Graduate - MIS611)
 Systems Architectures (Graduate - MIS621)
 Information Systems Integration Project I (Graduate - MIS631)
 Information Systems Integration Project II (Graduate - MIS632)
 Research and Statistics for Managers (Graduate - BUS678)

2004 – 2006 – South Dakota State University
 Associate Professor – Dept of Electrical Engineering and Computer Science

 Foundation of Software Engineering (Undergraduate – SE270)
 Software Requirements & Formal Specifications (Undergraduate – SE320)
 Human Factors & User Interface (Undergraduate - SE330)
 Software Architecture (Undergraduate – SE340)

Software Test and Quality Assurance (Undergraduate – SE410)
Software Project Management (Undergraduate – SE420)
Software Engineering for Game Development (Dual Level – SE492/592)

2000 – 2004 – Massey University
Associate Professor – Institute of Information and Mathematical Sciences

Research Methods (Post-graduate – 157.750)
Systems Analysis and Design (Undergraduate – 157.221)
Design of Web-Based Systems (Undergraduate – 157.250)
Information Systems Project Paper (Undergraduate – 157.321)
User Interface Design and Evaluation (Post-graduate – 157.757)

1997 – 2000 – Drexel University
Associate Professor – College of Information Science and Technology
(Adjunct Associate Professor – IST Online 1997-**Present**)

Information Systems Management (Graduate – INFO 646)
Human-Computer Interaction (Graduate – INFO 608)
Introduction to Systems Analysis and Design (Graduate – INFO 503)
Software Evaluation (Metrics) (Graduate – INFO 630)
Requirements Engineering and Management (Graduate – INFO 627)
Information Systems Analysis and Design (Graduate – INFO 620 - Object-Oriented A&D using UML)
Introduction to Systems Analysis and Design (Graduate – INFO 503)
Human-Computer Interaction (Undergraduate – INSYS 110)
Introduction to Information Systems (Undergraduate – INSYS101)
Expert Consulting Systems (Undergraduate – INSYS 450)

1995 - 1997 - University of Maine
Assistant Professor of MIS - College of Business Administration
Cooperating Assistant Professor - Department of Computer Science

Introduction to Management Information Systems
Decision Support Systems for Management
Management Information Systems (Graduate - MBA Program)

1993, September - 5-Day Custom Intensive Course - Human Factors in C^2I Systems
MacDonnell-Detweiler, Vancouver, B.C., Canada

1992 - 1995 - Minot State University - Assistant Professor - College of Business

Introduction to Information Processing
Telecommunications Systems Management
Systems Analysis and Design
Database Management Systems

Human Aspects of Information Systems (HCI)
Independent Study in Systems Analysis

1986 - 1991 - Lecturer for Armed Forces Communication and Electronics Association
Professional Development Seminars:

Decision Support System Design and Development
Requirements Engineering and Rapid Prototyping
Computing for Executives
Human Factors Considerations In C^{3}I Systems Design and Development

Presentations

Von Lehmen, G. and Overmyer, S.P. (2014, September) *Responding to the Need for Change: Providing Lower-Cost Degrees that Lead to Higher-Paying Jobs,* NUTN Network 2014 Conference: Collaboration: Breaking down the Barriers (NUTN 2014), San Antonio, TX.

Overmyer, S.P. (2013, September) *An Architecture for Teaching Creative Systems Problem Solving using Synthetic Communities of Practice (SCoP),* International Conference on eLearning and eTechnologies in Education (ICEE 2013), Lodz, Poland.

Overmyer, S.P. (2011, April) *Using Pedagogical Agents to Support the Formation of Synthetic Communities of Practice*, 2011 Annual Meeting of the American Educational Research Association (AERA 2011), New Orleans, Louisiana, USA.

Overmyer, S.P. (2009, March 27) Using 3D Virtual Worlds for Teaching and Integrating an IS Curriculum, 7th Annual eLearning 2.0 Conference, Drexel University, Philadelphia, PA.

Overmyer, S.P. (2008, April) Bakerville—A Domain for Teaching Software Engineering Concepts & Practices, 1st Annual Federal Virtual Worlds Expo: Implementing the Future, National Defense University, Washington, DC.

Overmyer, S.P. (1999, March) Key Issues for U.S. Foreign Policy in the Information Age, Invited Presentation to the World Affairs Council of Philadelphia.

Overmyer, S.P. (1998, July) Applications of Pedagogical Agents in the SAVI (Skill Acquisition through Virtual Interaction) Project Environment, Presentation to the Workshop on Intelligent Pedagogical Agents, Conference on Intelligent Tutoring Systems (ITS'98), San Antonio, TX.

Overmyer, S.P. (1997, June) GIS in Business Education, In: (On-line - http://www.spatial.maine.edu/ucgis/testproc/overmyer/overmyer.html) Proceedings of the UCGIS 1997 Annual Assembly and Summer Retreat, University Consortium for Geographic Information Science, Bar Harbor, ME.

Overmyer, S.P. (1997, March) <u>Software Requirements Engineering Approaches for Large-Scale Interactive Systems,</u> Presentation to the Maine Software Developer's Association Annual Breakfast, Orono, ME.

Overmyer, S.P. (1996) <u>Systems Approaches to Innovative Thinking.</u> Presentation to the University of Maine CEO Forum - Division of Industrial Cooperation.

Overmyer, S.P. (1991, June) <u>Validating System and Software Requirements: Extending the Davis-Jordan Requirements Metamodel to the "User's View"</u>, 2nd International Workshop on Rapid System Prototyping, IEEE, Research Triangle Park, NC.

Overmyer, S.P. (1989, November) <u>Rapid Prototyping Tools and Techniques</u>, Invited presentation, CECOM Technical Cooperation Program Technical Panel on Software Engineering (TTCP XTP-2) U.S. Army, Requirements Engineering and Rapid Prototyping Workshop, Ft. Monmouth, N.J.

McLaughlin, L.L., Overmyer, S.P. and Valt, L.G. (1986, November) <u>User Engineering,</u> Tutorial, Fall Joint Computer Conference (ACM-IEEE), Dallas, TX.

Overmyer, S.P. (1987, May) <u>Graphic Production and Visual Early Warning Systems for Top Management</u>, Panel, National Computer Graphics Association, Computer Graphics '87, Anaheim, CA.

Overmyer, S.P. and Campbell, H.E., Jr. (1984, October) <u>Rapid Prototyping - An approach to user interface design</u>. Paper presented at the 28th Annual Meeting of the Human Factors Society, San Antonio, TX.

Edited Volumes

Overmyer, Scott P. and Gornostaev, Juri (Eds.) <u>Proceedings of the 6th East-West International Conference on Human-Computer Interaction</u>, Moscow, Russia; August 12-16, 1996.

Refereed Conference Papers and Technical Reports

Sarrafzadeh, A., Fourie, L., Kingston, T., Alexander, S.T.V., Overmyer, S. and Shanbehzadeh, J. (2014) Eve: An affect-sensitive pedagogical agent, *Proceedings of the 16th Annual Conference of the Global Business and Technology Association*, Baku, Azerbaijan, pp. 573-579.

Sarrazfadeh, A., Fourie, L. and Overmyer, S. (2014) Improved learning through peer tutoring in a declarative programming course, *Proceedings of the 16th Annual Conference of the Global Business and Technology Association*, Baku, Azerbaijan, pp. 580-588.

Overmyer, S.P. (2010) <u>Implementing Telework: Lessons Learned form Four Federal Agencies</u>, Washington, D.C.: IBM Center for the Business of Government.

Overmyer, S.P. (2007, November) Can Learning Task Analysis and Modeling be Useful AND Fun? *AIS SIGHCI Newsletter*, *6*(*2*), 6-7.

Dadgostar, F., Sarrafzadeh, A., Overmyer, S., DeSilva, L.(2006, November) Is the Hand really quicker than the Eye? Variances of the Mean-Shift algorithm for real-time hand and face tracking, In: *IEEE International Conference on Computational Intelligence for Modelling, Control and Automation*, 28 Nov-1 Dec, Sydney, Australia, p. 58.

Ciliberti, C and Overmyer, S.P (2006, September) The Impact of Open Architecture on US Navy's AEGIS Requirements Engineering. In: <u>*Proceedings of the Conference on Maritime Systems and Technology for Defence, Security and Safety*</u>, Nice, France, September 2006.

Dadgostar, F., Sarrafazdeh, A., and Overmyer, S.P. (2006, July) Genetic Algorithms and Long-Haar features: A Method for Object Detection. *In:* Proceedings of the 3rd International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2006), Orlando, USA, July 20-23, 2006..

Dadgostar, F., Ryu, H., Sarrafazdeh, A., and Overmyer, S.P. (2005, November) Making sense of student use of non-verbal cues for intelligent tutoring systems. Proceedings of the 19th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: citizens online: considerations for today and the future, OZCHI '05, Canberra, Australia, 1-4.

Dadgostar, F., Sarrafzadeh, A., Overmyer, S.P. (2005, October) Face Tracking Using Mean-Shift Algorithm: A Fuzzy Approach for Boundary Detection, Lecture Notes in Computer Science 3784 (Springer)/The Proceedings of the International Conference on Affective Computing & Intelligent Interaction, Beijing, China, 56-63.

Dadgostar, F., Sarrafzadeh, A., Overmyer, S. (2005) An Adaptive Real-Time Skin Detector for Video Sequences, In: H.R. Arabnia (Ed.) Proceedings of International Conference on Computer Vision (VISION05), Las Vegas, Nevada, 65-70.

Biglari-Abhari, M., Bigdeli, A., Fan, C., Sarrafzadeh, A., Overmyer S. P. (2003, December) FPGA Implementation of Facial Expression Analysis for Intelligent Tutoring Systems, Proceedings of the mICTE, Spain, 1985-1989.

Fan, C., Sarrafzadeh, A., Overmyer, S. P., Gholam Hosseini, H., Biglari-Abhari, M., Bigdeli, A. (2003, December) A Fuzzy Approach to Facial Expression Analysis in Intelligent Tutoring Systems, Proceedings of the mICTE, Spain, 1933-1937.

Overmyer, S., Hosseini, H., Fan, C., Sarrafzadeh, A. (2003, November). A facial expression analysis component for affective tutoring systems. Proceedings of the IADIS International Conference WWW/Internet 2003, Algarve, Portugal, 1003-1008.

Sarrafzadeh, A., Gholam Hosseini, H., Fan, C., Overmyer S. P., (2003) Using Machine Intelligence to Estimate Human Cognitive and Emotional States from Non-Verbal Signals,

Proceedings of the IEEE International Conference on Advanced Learning Technologies (ICALT 2003), Athens, Greece, 336-337.

Sarrafzadeh, A., Page, C., Overmyer S. P., Fan, C., Messom, C., (2003, July) The Next Generation Intelligent Tutoring System, In: H.U. Hoppe et al (Eds.) Proceedings of the International Conference on Artificial Intelligence in Education (AIED), IOS Press, Sydney, Australia, 500-502.

Sarrafzadeh, A., Page, C., Overmyer, S., Messom, C., Mills, B., Pritchard, S., Bigdeli, A., Biglari-Abhari, M., Hosseini, H., (2003) Development of an Innovative Intelligent Tutoring System in an E-Learning Environment, Proceedings of the Enterprise 2003 Hawaiian International Faculty Student Conference, Honolulu, HI, USA, p 129-132.

Miller, R. & Overmyer, S.P. (2001, November) Deriving the "User View" from Analysis and Design Models of Requirements. In: Proceedings of the AWRE'2001, Sydney, Australia, pp. 61-69.

Overmyer, S.P., Lavoie, B., and Rambow, O. (2001, May) Conceptual modeling through linguistic analysis using LIDA. In: Proceedings of ICSE 2001, Toronto, Canada.

Overmyer, S.P. (1999, June) The Use of Scenarios in Developing, Validating, and Specifying Requirements for Interactive Systems: A case study from a NASA project. Paper presented at REFSQ'99, Heidelberg, Germany. http://www.ifi.uib.no/konf/refsq99/papers.html.

Overmyer, S.P. (1999, February) White Paper: Midatlantic Institute for Medical Informatics (MIMI): *Preparing for 21st Century Health Care Challenges through Information Technology*, Drexel University College of Information Science and Technology; and School of Biomedical Engineering, Science and Health.

Overmyer, S.P., Harrington, T.L., and Bidyuk, P.I. (1998, May) Kiev Chapter Holds Workshop. Human Factors and Ergonomics Society Bulletin, 41(5), p. 4.

Overmyer, S.P. (1995) Capturing, Analyzing, and Representing Requirements for Large-Scale Command, Control, and Intelligence (C^2I) Information Systems Using Electronic Multimedia. In: Proceedings of the 1995 IEEE International Conference on Systems, Man, & Cybernetics, Vancouver, B.C., 3932-3937.

Overmyer, S.P. (1994, August) Technical Report: HCI Design and Rapid Prototyping for the Payload Video Console (PVC) System, National Aeronautics and Space Administration (NASA), Johnson Space Center.

Overmyer, S.P. (1993, August) Technical Report: A Comparative Evaluation Plan for the Maintenance Inventory and Logistics Planning (MILP) Human-Computer Interface (HCI), National Aeronautics and Space Administration (NASA), Johnson Space Center.

Davis, A.M., Overmyer, S.P., Jordan, K, et al (1993, May) Identifying and measuring quality in a software requirements specification. In: <u>Proceedings of the 1st International Software Metrics Symposium</u>, Baltimore, Maryland, IEEE Computer Society Press.

Overmyer, S.P. (1991, September) Revolutionary vs. evolutionary rapid prototyping: balancing software productivity and HCI design concerns. In: <u>Proceedings of the 4th International Conference on Human-Computer Interaction</u>, Stuttgart, Germany.

Overmyer, S.P. (1991, June) The role of human-computer interface design in adaptive systems. In: <u>Proceedings of the Symposium on Associate Technology</u>, DARPA/George Mason University, Fairfax, VA.

Overmyer, S.P. (December, 1991) <u>White Paper: Maximizing End User Influence Over Software Design and Development</u>. Contract #DCA100-91-C-003, Technical Report; Center of Excellence in Command, Control, Communications and Intelligence; George Mason University; Fairfax, VA.

Overmyer, S.P. (March, 1990) <u>Throwaway vs. Evolutionary Prototyping: A Software Productivity Perspective</u>. Technical Report; Center of Excellence in Command, Control, Communications and Intelligence; George Mason University; Fairfax, VA.

Overmyer, S.P. (January, 1990) <u>Survey of Rapid Prototyping Tools for C3I Requirements Definition and User-Computer Interface Design</u>. Technical Report; Center of Excellence in Command, Control, Communications and Intelligence; George Mason University; Fairfax, VA.

Overmyer, S.P. (October, 1990) <u>The Impact of DoD-Std-2167A on Iterative Design Methodologies: Help or Hinder?.</u> <u>ACM SIGSOFT Software Engineering Notes</u>, <u>15</u>(5), 50-59.

Overmyer, S.P. (1989) <u>Survey of Rapid Prototyping Tools for User-computer Interface Design</u>. Technical Note 8901, CONTEL Technology Center, Fairfax, VA.

Overmyer, S.P. (1987) Rapid Prototyping in the design of large-scale interactive information systems. <u>Human Factors Society Bulletin</u>, <u>30</u>(1), 3-4.

Melde, J.E., Overmyer, S.P. and Trowbridge, T.L. (1985, March) Simulation and display prototyping in the design of man-machine systems. In <u>Proceedings of the Eighteenth Annual Simulation Symposium</u> (pp. 235-253) Tampa, FL: Society for Computer Simulation.

Overmyer, S.P., Prokop, L.J., and Ellingstad, V.S. (1982) <u>Human factors considerations in software development and interactive system design: Critical summary and annotated bibliography</u> (PMTC-USN Contract No. N0429A-81N4130) University of South Dakota, Vermillion, SD.

Book Chapters

Sarrafzadeh, A., Shanbehzadeh, J., and Overmyer, S. (2011) E-Learning with Affective Tutoring Systems. In S. Stankov, V. Glavinić and M. Rosić (Eds.) *Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation*, (pp. 129-140). Hershey: IGI Global.

Journal Publications

Veletsianos, G., Heller, R., Overmyer, S., & Procter, M. (2010). Conversational Agents in Virtual Worlds: Bridging Disciplines. *British Journal of Educational Technology*, *41*(*1*), 123-140.

Lal, R. and Overmyer, S. (2008) User interface design practice for the web in New Zealand, *International Journal of Web Engineering and Technology*, *4*(*3*), 267-285.

Sarrafzadeh, A., Messom, C., Overmyer, S.P., Mills, B., Hosseini, H.G., Fan, C., Bigdeli, A., Biglari, M. (2002) The future of computer-assisted management education and development, International Journal of Management Literature, 2(3&4), 214-229.

Procaccino, J.D., Verner, J.M., Overmyer, S.P., and Darter, M.E. (2002, January) Case study: factors for early prediction of software development success., Information and Software Technology, 44, 53-62.

Vernor, J., Overmyer, S., and McCain, K. (1999, November) In the 25 years since The Mythical Man-Month what have we learned about project management?, Information and Software Technology, 41, 1021-1026.

Overmyer S. (1999). If only my intelligent pedagogical agent could ... ! Educational Technology & Society, 2(1), 4-6.

Overmyer, S.P. (1999, May) A Methodology for Constructing User-Oriented Requirements Specifications for Large-Scale Systems Using Electronic Hypermedia, Requirements Engineering, 4(1), 1-18.

Artim, J., van Harmelen, M., Butler, K., Gulliksen, J., Henderson, A., Kovacevic, S., Lu, S., Overmyer, S., Reaux, R., Roberts, R., Tarby, J-C., Vander Linden, K. (1998, October) Incorporating Work, Process And Task Analysis Into Commercial And Industrial Object-Oriented Systems Development: A CHI 98 Workshop, SIGCHI Bulletin, 30(4), 7-12.

Simon, J.R., Paullin, C., Overmyer, S.P., and Berbaum, K. (1985) Reaction time to word meaning and ink color of laterally-presented Stroop stimuli: Effects of handedness and sex. International Journal of Neuroscience, 28, 21-33.

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Simon, J.R. and Overmyer, S.P. (1984) The effect of redundant cues on retrieval time. <u>Human Factors</u>, <u>26</u>(3), 315-321.

Graduate Student Supervision

Principal Supervisor:

Ralph Miller, Ph.D. - Drexel University - Graduated 2002 - "Learning and using requirements representation notations by information technology professionals"
Ramesh Lal – Master's Candidate - Massey University – 2004 – "User interface design practice for web sites and web-based applications in New Zealand"

Committee Member:

5 Ph.D. committees, 14 M.S. committees,

Professional Membership/Service

Association for Information Systems (AIS) – Member

Association for Computing Machinery – Senior Member
    ACM SIGCHI – Member
    PhiCHI - Philadelphia Local SIGCHI Chapter - Founding Chair
        SIGCHI Paper Reviewer 1994-Present
        SIGCHI Associate Paper Chair - 1999

IEEE Computer Society – Member

Drexel University (previously)
    Budget, Planning & Development Committee of the Faculty Senate
    Douglas Englebart Award Committee
    Curriculum Committee – School of Biomedical Engineering, Science & Health

Human Factors and Ergonomics Society – Past Member
    - Past Newsletter Editor – Virtual Environments Technical Group
    - Past Chair - System Development Technical Group
    - Past Newsletter Editor - System Development Technical Group

Entrepreneurial Activity

Scotto's Italian/American Retaurant and Deli, Albany, Auckland, New Zealand

(2001-2004)
Chateau Sylvania Vineyard and Winery, Toronto, South Dakota (2006-Present)

Elective/Political Office

School Board - Old Town, Maine (1996-97)
Minnesota Grape Grower's Association – Board of Directors (2015-Present)