

## SHAUN M. LYNCH, Ph.D.

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### Education

Ph.D. Engineering, North Dakota State University	1998
M.B.A. Business Administration, North Dakota State University	1992
B.S. Engineering Physics, North Dakota State University	1991
O.P. Electronics, Riverland Technical and Community College	1985

### Professional Experience

Professor, University of Wisconsin-Superior	2008-Present
Chair, Mathematics and Computer Science, University of Wisconsin-Superior	2010-2013
Associate Professor, University of Wisconsin-Superior	2002-2008
Assistant Professor, University of Wisconsin-Superior	1999-2002
Lecturer, North Dakota State University	1998-1999
Graduate Teaching Fellow, North Dakota State University	1993-1998
Marketing Manager, Technical Writer, and Programmer, GTW Corporation	1992-1993
Teaching Assistant, North Dakota State University	1991-1992
Customer Engineer, Unisys Corporation	1985-1987

### Teaching

#### University of Wisconsin-Superior

- CIS/ITS 108 Business Computer Application (F04, F05, F06, F07, S08, F08, S09, F09, S10, F10, S12, F12, S13, F13, S14, F14, S15, F15, S16, F16, S16, F17)
- CIS 224 Introduction to Computer Information Systems (F02, F03, F04)
- CIS/ITS 342 Management Information Systems (F99, S00, F00, S01, F01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11, S12, S13, S14)
- CIS 347 Database Systems (F99, S04)
- CIS 355 System Abstraction and Modeling (F02, F03, F04, F05, F06, F07)
- CIS 360 Data Network Systems (S00, F00, F02, S07–Independent Study)

- CIS 453 Advanced Topics in Computer Information Systems (S01–Current Issues in CIS, F03–Database-Driven Websites)
- CIS 455 Systems Development (F99, F00, F01, F02, F03, F04, F05, F06, F07)
- CIS 456 Project Management (S00, S01, S02, S03, S04, S05, S06, S07, S08)
- CIS 457 Seminar in Computer Information Systems (S03–Current Issues in CIS, S05–Information Security, S07–Current Issues in CIS)
- ITS 148 Computer Applications for Productivity (F08, F09, F10, F11, F12, S13, F13, S14, F14, F15, F16, F17)
- ITS 211 Visual Programming Fundamentals (S09, S10, S11, S14, S15, S16)
- ITS 230 Introduction to Information Technology (S09, F13)
- ITS 350 Networking and Communications (F08, F10, F12, F13, F14, F16, F17)
- ITS 360 Computer Law, Ethics, and Intellectual Property (F09, F11, F14)
- ITS 364 Multimedia and Digital Entertainment (S10, S12)
- ITS 370 Information Assurance and Security (F13, F15)
- CSCI 101 Introduction to Computer Science (F17)

### North Dakota State University

- IME 112 Computer Applications in Industrial Engineering (S95, S96, S97, S98, S99)
- IME 440 Engineering Economics (F93, S94, F94, SU95, F95, F96, F97, F98, S99)
- IME 470 Operations Research (S96, S97, S98)
- IME 480 Production and Inventory Control Systems (F96, F97, F98)
- IME 770 Advanced Operations Research (F98)

## Scholarship

### Articles

- Managing the Academic Computing Infrastructure in the Age of Automation. *Proceedings of the 50<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2017).
- Deploying a Virtualized Network Infrastructure in an Academic Computing Environment. *Proceedings of the 49<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2016).
- Making Progress on IPv6: New Insights after an IPv4-IPv6 Dual-Stack Deployment. *Proceedings of the 49<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2016).
- Deploying an IPv4-IPv6 Dual Stack Network in an Academic Computing Infrastructure. *Proceedings of the 48<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2015).
- MiNet: Managing Internet Connectivity in Academic Computing Labs. *Proceedings of the 48<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2015).
- Virtualization in the Academic Computing Infrastructure: The Rise of Boutique Computing. *Proceedings of the 47<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2014).

- Automating Computing Infrastructure Configuration with Emphasis on System-Level Design and Integration. *Proceedings of the 46<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2013).
- Rebuilding an Academic Network Infrastructure Employing Virtualization and Failover Clustering. *Proceedings of the 45<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2012).
- Enabling Group Work: Developing an Automated Evaluation System that Collects, Manages, and Analyzes Student Performance Data. *Proceedings of the 44<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2011).
- Designing and Implementing an Information Technology Minor at the University of Wisconsin-Superior. *Proceedings of the 43<sup>rd</sup> Midwest Instruction and Computing Symposium*. Lynch (2010).
- The Capstone Experience: Trials of a Joint Capstone Class for Computer Information System and Computer Science Majors. *Proceedings of the 42<sup>nd</sup> Midwest Instruction and Computing Symposium*. Lynch (2009).
- The Capstone Experience: Learning to Manage Uncertainty and Ambiguity in a Project Management Environment. *Proceedings of the 41<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2008).
- The Capstone Experience: Balancing Formal Project Management Methodologies with Student Creativity and Innovation. *Proceedings of the 40<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2007).
- Optimal Constant Price Policy for Perishable Asset Yield Management. *Journal of Eastern Asia Society for Transportation Studies*. Wang, Lynch & Wang (2005).
- The Capstone Experience: Integrating Curricular Outcomes with Real-World Practice. *Proceedings of the 37<sup>th</sup> Midwest Instruction and Computing Symposium*. Lynch (2004).
- Functional Evaluation of an Event Detection Ensemble to Detect Anomalous System Behavior. *Computers and Industrial Engineering: An International Journal*. Lynch & Cook (2004).
- Automated Event Detection Using Autonomous Software Agents. *Proceedings of the 31<sup>st</sup> International Conference of Computers and Industrial Engineering*. Lynch & Cook (2003).
- Functional Evaluation of an Event Detection Ensemble to Detect Anomalous System Behavior. *Proceedings of the 29<sup>th</sup> International Conference of Computers and Industrial Engineering*. Lynch & Cook (2001).
- Integrating the Seven Principles for Good Practice in Undergraduate Education into an Undergraduate Business Program: The Case of University of Wisconsin-Superior. *Proceedings of the International Business and Economics Research Conference*. Trudeau & Lynch (2001).

## Presentations

- Managing the Academic Computing Infrastructure in the Age of Automation. *Proceedings of the 50<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Deploying a Virtualized Network Infrastructure in an Academic Computing Environment. *Proceedings of the 49<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Making Progress on IPv6: New Insights after an IPv4-IPv6 Dual-Stack Deployment. *Proceedings of the 49<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Deploying an IPv4-IPv6 Dual Stack Network in an Academic Computing Infrastructure. *Proceedings of the 48<sup>th</sup> Midwest Instruction and Computing Symposium.*
- MiNet: Managing Internet Connectivity in Academic Computing Labs. *Proceedings of the 48<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Virtualization in the Academic Computing Infrastructure: The Rise of Boutique Computing. *Proceedings of the 47<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Automating Computing Infrastructure Configuration with Emphasis on System-Level Design and Integration. *Proceedings of the 46<sup>th</sup> Midwest Instruction and Computing Symposium.*
- Rebuilding an Academic Network Infrastructure Employing Virtualization and Failover Clustering. *45<sup>th</sup> Midwest Instruction and Computing Symposium (2012).*
- Designing and Implementing an Information Technology Minor at the University of Wisconsin-Superior. *43<sup>rd</sup> Midwest Instruction and Computing Symposium (2010).*
- The Capstone Experience: Trials of a Joint Capstone Class for Computer Information System and Computer Science Majors. *42<sup>nd</sup> Midwest Instruction and Computing Symposium (2009).*
- The Capstone Experience: Learning to Manage Uncertainty and Ambiguity in a Project Management Environment. *41<sup>th</sup> Midwest Instruction and Computing Symposium (2008).*
- The Capstone Experience: Balancing Formal Project Management Methodologies with Student Creativity and Innovation. *40<sup>th</sup> Midwest Instruction and Computing Symposium (2007).*
- Optimal Constant Price Policy for Perishable Asset Yield Management. *6<sup>th</sup> International Scientific Committee, the Eastern Asia Society for Transportation Studies Conference (2005).*
- Beginnings and Endings: Entering and Exiting a Major Program. *2005 Office of Professional and Instructional Development Spring Conference, University of Wisconsin (2005).*
- The Capstone Experience: Integrating Curricular Outcomes with Real-World Practice. *37<sup>th</sup> Midwest Instruction and Computing Symposium (2004).*
- Automated Event Detection Using Autonomous Software Agents. *31<sup>st</sup> International Conference of Computers and Industrial Engineering (2003).*
- Functional Evaluation of an Event Detection Ensemble to Detect Anomalous System Behavior. *29<sup>th</sup> International Conference of Computers and Industrial Engineering (2001).*

## Research Activities

- Wisconsin Teaching Fellow (University of Wisconsin-Superior). *University of Wisconsin Office of Professional and Instructional Development* (2004-2005).
- Wisconsin Collaborating Campuses on Cyber Security (National Science Foundation, Federal Cyber Security). *P.I.: Dr. Victor Piotrowski, Department of Mathematics and Computer Science* (2003-2004).
- Supply Chain Feasibility Study for Pig Iron (North Shore Mining). *P.I.: Dr. Richard Stewart, Transportation and Logistics Research Center* (1999-2000).

## Dissertation

A Generalized Theory of Surveillance: With Application Toward Designing Automated Data Collection and Event Detection Systems Using Distributed Agents. *North Dakota State University* (1998).

## Service Activities

### University Activities

- Higher Learning Commission-Academic Planning Committee (2009-2010)
- University Promotion Committee (2006-2009, 2012-2013)
- Swenson Hall Furniture Selection Advisory Group (2008)
- Information and Instructional Technology Consolidation Project (Facilitator 2005-2006)
- University Technology Committee (2003-2004, Chair 2004-2005, Chair 2014-Present)
- University Classroom and Laboratory Modernization Committee (2002-2004)
- Student Technology Fee Committee (2000-2004)

### Faculty Governance Activities

- Sabbatical and Faculty Development Grant Committee (2011-2012)
- General Education Committee (2010-2011)
- Faculty Senate Executive Committee (2009-2010)
- Faculty Senate (2007-2010)
- CETL Advisory Committee (2007-2010)
- Faculty Senate Multiyear Pay Plan Liaison (2009-2010)
- Faculty Senate Multiyear Pay Plan Subcommittee (Chair 2008)
- Faculty Senate Administrative Evaluation Subcommittee (2008)
- Academic Service Learning Action Committee (Facilitator 2006-2007)
- NCA Writing Across the Curriculum Implementation Group (2004-2005)
- NCA Working Group on Student Life (2004-2005)
- Academic Computing Advisory Committee (Chair 2001-2003)

## Department of Math and Computer Science Activities

- Computing Infrastructure Administrator (2011-Present)
- Department Budgeting Committee (2013-Present)
- Department Chair (2010-2013)
- Personnel Committee (2006-Present)
- ELMS (Microsoft DreamSpark/Imagine and VMware VMAP) Administrator (2008-Present)
- Swenson Hall Facilities (2007-2011)
- IT Program Coordinator (2008-2010)
- Information Technology Program Development (2007-2008)
- CIS-CSCI Curriculum Integration Subcommittee (2006-2007)

## Department Business and Economics Activities

- Personnel Committee (2005-2006)
- Awards Committee (1999-2000, Chair 2001-2006)
- Petitions and Appeals Committee (2000-2003)
- Strategic Planning Subcommittee (2002-2003)
- Curriculum Committee (1999-2006)

## Transportation and Logistics Research Center Activities

- Space Grant Consortium (2006-2007)
- NRRI Masabi Hard Rock Aggregate Project (2006)
- Evaluation of Shipper Requirements and Rail Service for Northern Wisconsin and the Upper Peninsula of Michigan Project (2006)

## Search and Screen Activities

- Provost (2011-2012)
- Computer Science (2010-2011)
- Math Education (2010-2011)
- Chief Information Officer (2006-2007)
- Language and Literature-Assistant Professor of Professional Writing (2006-2007)
- Business and Economics-Assistant Professor of Computer Information Systems (Chair 2003-2004)
- Business and Economics-Assistant Professor of Accounting (2002-2003)
- Business and Economics-Assistant Professor of Management (2001-2002)

## Student Organization Activities

- Outdoors Club (2005-2007)
- Students of Buddhist Philosophy and Meditation (2004-2005)

- Information Systems Organization (2003-2005)

### University and Community Outreach Activities

- Arrowhead Astronomical Society
- BusinessNorth
- Donneray Consulting
- Douglas County Zoning
- Duluth Audubon Society
- FUNdamentals
- Haugen Pottery
- Lake Superior College, Computer Information Systems Advisory Board
- North Dakota State University, Department of Industrial and Manufacturing Engineering Advisory Board
- North Shore Mining
- Northern Technology Consortium
- Northwoods Church Sports League
- Superior Hiking Trail Association
- Superior-Lidgerwood-Mundy
- Therapies, Inc.
- University of Wisconsin-Superior, Computing and Media Services
- University of Wisconsin-Superior, Network and Programming Services
- University of Wisconsin-Superior, ResNet
- University of Wisconsin-Superior, Transportation and Logistics Research Center

### Community and Class Presentations

- Grading with a Technology Twist: How to Save Time and Enhance Your Feedback to Students on Papers. *Center for Excellence in Teaching and Learning, University of Wisconsin-Superior.*
- Best Practices for Engaging Millennials. *Center for Excellence in Teaching and Learning, University of Wisconsin-Superior.*
- Lessons Learned about Engaging Science/Technology Issues. *Center for Excellence in Teaching and Learning, University of Wisconsin-Superior.*
- Thai-Tech. *International Friendship Club, University of Wisconsin-Superior.*
- Identity Theft. *Guest presentation for the IDS 100-002 Freshman Experience class, University of Wisconsin-Superior.*
- Wisconsin Teaching Fellow Progress Report. *Campus Conversations of Teaching and Learning. University of Wisconsin-Superior.*

- Star Clusters: Open and Globular Clusters. *Guest presentation for the PHYS 100 Astronomy class, University of Wisconsin-Superior and Arrowhead Astronomical Society, Alworth Planetarium, University of Minnesota Duluth.*
- Constellations and Selected Objects in the Night Sky. *Arrowhead Astronomical Society, Alworth Planetarium, University of Minnesota Duluth.*
- Multicultural Views on Economic Development and American Indian Communities. *University of Wisconsin-Superior Dean's Colloquium.*
- E-Commerce Resources Panel. *Putting E-Commerce to Work for You, Small Business Development Center, University of Wisconsin-Superior.*

## Awards and Honors

- Committee of the Year. *University of Wisconsin-Superior.*
- Wisconsin Teaching Fellow. *Office of Instructional and Professional Development, University of Wisconsin.*
- Industrial Engineering and Management Teacher of the Year. *North Dakota State University.*
- Advanced Toastmaster-Bronze (ATM-B). *Toastmasters International.*

## Business Reports

### Undergraduate Research Projects

- Campus Mobile Applications. *University of Wisconsin-Superior (2008).*
- Online Contact Management. *Donneray Consulting (2007).*
- Campus Mobile Technology. *University of Wisconsin-Superior (2007).*
- Rescasa 2007 Web Application. *University of Wisconsin-Superior: ResNet (2007).*
- IITCP Organizational Development. *Information and Instructional Technologies Consolidation Project, University of Wisconsin-Superior (2006).*
- Online Test Proctoring Management. *Computing and Media Services, University of Wisconsin-Superior (2005).*
- Helpdesk Software Selection. *Computing and Media Services, University of Wisconsin-Superior (2005).*
- University of Wisconsin-Superior Information Security. *Network and Programming Services, University of Wisconsin-Superior (2004).*
- University of Wisconsin-Superior Wireless Infrastructure. *University of Wisconsin-Superior (2003).*
- University of Wisconsin-Superior Wireless Application. *University of Wisconsin-Superior (2003).*
- Haugen Pottery Website Development. *Haugen Pottery (2002).*



- Therapies E-Zine/Interactive Email System. *Therapies, Incorporated* (2002).
- Twin Port Intermodal Terminal Information System Feasibility Study. *Transportation and Logistics Research Center, University of Wisconsin-Superior* (2002).
- Computerized Permitting Process Database. *Douglas County Zoning* (2001).
- Sales Department Website Modernization Project. *Superior-Lidgerwood-Mundy* (2001).
- Sports League Management Website for a Non-Profit Organization. *Northwoods Church Sports League* (2001).
- Information Technology Project. *North Shore Mining* (2000).
- Electronic Documentation Project. *Superior-Lidgerwood-Mundy* (2000).
- Website Development Plan Project. *BusinessNorth* (2000).

## Research Projects

- Supply Chain Feasibility Study for Pig Iron. *North Shore Mining* (2000).

## Grants and Proposals

### Internal Funded Grants

- MCS Advanced Computing Lab Projector and Multimedia Switch Upgrade for Swenson Hall, Room 1017. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- MCS Advanced Computing Lab Projector and Multimedia Switch Upgrade for Swenson Hall, Room 3011. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- MCS Advanced Computing Lab Remote Viewing Project for Swenson Hall, Room 1017. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- MCS Advanced Computing Lab Remote Viewing Project for Swenson Hall, Room 3011. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- Document Camera Relocation for Swenson Hall, Room 3003. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- Document Camera Relocation for Swenson Hall, Room 3003. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- Document Camera Relocation for Swenson Hall, Room 3008. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- Document Camera Relocation for Swenson Hall, Room 3009. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- Adobe Elements Upgrade for Swenson Hall, Rooms 3010 and 3011. *Laboratory/Classroom Modernization and Student Technology Fee* (2017).
- MCS Advanced Computing Lab, Swenson Hall, Rooms 1017 and 3011 computer replacement. *Laboratory/Classroom Modernization and Student Technology Fee* (2016).
- Swenson 3003 Interactive Whiteboard. *Laboratory/Classroom Modernization* (2014).

- MCS Computing Infrastructure. *Laboratory/Classroom Modernization* (2014).
- Swenson 3010 Workstations. *Laboratory/Classroom Modernization* (2014).
- Swenson 3011 Applications Computer Lab Whiteboard. *Laboratory/Classroom Modernization* (2014).
- Swenson 3011 Applications Computer Lab. *Laboratory/Classroom Modernization* (2011).
- Swenson 3016 Network Infrastructure. *Laboratory/Classroom Modernization* (2011).
- Adobe Acrobat for UWS Computer Labs. *Laboratory/Classroom Modernization* (2008).
- Erlanson 203 Multimedia Upgrade and Erlanson 202 Document Camera. *Laboratory/Classroom Modernization* (2005).
- Erlanson 102 Multimedia Upgrade and Erlanson 208 Remodeling-Multimedia Upgrade. *Laboratory/Classroom Modernization* (2003).
- Erlanson 202 Multimedia Conversion and Erlanson 208 Multimedia Upgrade. *Laboratory/Classroom Modernization* (2002).
- Portable Computer-Data Network Laboratory. *Laboratory/Classroom Modernization* (2000).

### Internal Unfunded Proposals

- MCS IT Infrastructure UPS Battery Replacement. *Student Technology Fee* (2016).
- Interactive Whiteboard Clickers for Swenson Hall, Room 3003. *Student Technology Fee* (2016).
- Teacher Workstation Upgrade for Swenson Hall, Room 3003. *Student Technology Fee* (2016).
- Teacher Workstation Monitor Upgrade for Swenson Hall, Rooms 3008, 3009, 1056, and 1013. *Student Technology Fee* (2016).
- Large Format Flat Panel and Wireless Router for Swenson Hall, Room 3010. *Student Technology Fee* (2016).
- Erlanson 106 Multimedia Upgrade. *Laboratory/Classroom Modernization* (2007).
- Laboratory Software for CIS 456 Project Management and MRUTC Intermodal Grant. *Transportation and Logistics Research Center* (2002).
- General Access Computer Lab Software Suite. *Laboratory/Classroom Modernization* (2000).
- Laboratory Software for CIS 456 Project Management and Incumbent Transportation Workers. *Transportation and Logistics Research Center* (2000).

### External Unfunded Proposals

- Economic Development Plan for Superior-Douglas County Bicycle Trails. *UW System Applied Research Grant Program* (2005).

### Professional Development

## Conferences, Seminars, and Workshops

- On-Campus Assessment Workshop. *Assessment Office and Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2011).*
- University of Wisconsin System Leadership Development Workshop for Department Chairs. *UW System Office of the President, the UW System Office of the Senior Vice President for Academic Affairs, and the UW System Office of Academic, Faculty, and Global Programs, Littleton, WI (2011).*
- Learning Technologies for Millennial Students. *Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2010).*
- Bridging the Generational Divide: Working Together to Teach Millennial Students. *The Collaboration for the Advancement of College Teaching & Learning, Bloomington, MN (2009).*
- The Artistry of Engagement: Reaching Learners in the Age of Engagement. *Learning Technology Development Council, Madison, WI (2009).*
- Integrative Learning: Addressing the Complexities. *Association of American Colleges and Universities (AAC&U), Atlanta, GA (2009).*
- Digital Storytelling. *Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2009).*
- Fostering Our Own Development for Better Practice and Results. *The Collaboration for the Advancement of College Teaching & Learning, Bloomington, MN (2009).*
- Classroom Learning Assessment. *Office of Professional and Instructional Development (OPID), University of Wisconsin-Stout, Menomonie, WI (2009).*
- Group Work That Works. *Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2009).*
- Prior Learning Assessment–Training the Trainer. *UW-Extension and UW Colleges Adult Student Initiative, Eau Claire, WI (2008).*
- Engaging Science, Advancing Learning: General Education, Majors, and the New Global Century. *Association of American Colleges and Universities (AAC&U), Providence, RI (2008).*
- Concept Mapping. *Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2008).*
- Critical Thinking in the Age of the Internet. *The Collaboration for the Advancement of College Teaching & Learning, Bloomington, MN (2008).*
- Brain, Memory, and Learning-Redesigning Lessons that Work with Memory and Learning Processes. *Center for Excellence in Teaching and Learning (CETL), University of Wisconsin-Superior, Superior, WI (2008).*
- Information Assurance, Network, Database and Software Security Symposium. *St. Cloud State University, St. Cloud, MN (2007).*
- Developing an Online Course. *University of Wisconsin-Superior, Superior, WI (2005).*
- Presenting Data and Information. *Edward Tufte Seminar, Minneapolis, MN (2005).*

- Automatic Information and Data Collection Technical Institute. *Center for Automatic Identification, Ohio University, Athens, OH* (2004).
- SANS Introduction to Information Security (GISF). *University of Wisconsin-Superior, Superior, WI* (2004).
- OPID Summer Institute. *Office of Professional and Instructional Development (OPID), University of Wisconsin, Madison, WI* (2004).
- OPID Faculty College. *Office of Professional and Instructional Development (OPID), University of Wisconsin, Richland, WI* (2004).
- Computer Network Defense Course. *U.S. Army Reserve Readiness Training Center, Fort McCoy, WI* (2004).
- GIS Using ArcGIS and its Extensions, Spatial Analyst and Geostatistical Analyst. *Department of Biology and Earth Sciences, University of Wisconsin-Superior, Superior, WI* (2003).
- SANS Security Essentials (GSEC). *University of Wisconsin-Superior, Superior, WI* (2003).
- AACSB Undergraduate Programs Conference. *The Association to Advance Collegiate Schools of Business (AACSB), Dallas, TX* (2001).
- Project Management Professional Training. *Project Management Local Chapter, Federal Way, WA* (1993).
- Marketing Computer Software. *Bellevue Community College, Bellevue, WA* (1992).

## Technology Skills

- Enterprise Computing: **Operating System and Application Deployment using MDT**, AD/Linux Integration, IPv4/IPv6 Dual-Stack Networking, Virtual Desktop Infrastructure, Remote Desktop Services, AD DS, DNS, DHCP, Failover Clustering, Hyper-V, vSphere/VCenter, RRAS, and iSCSI.
- Applications: SCCM, SQL Server, Sage, Squid, WordPress, Joomla, Moodle, and GitLab.
- Programming/Scripting Languages: Python, BASH, XML/XSD, JSON, PowerShell, C/C++/C#, Java, VB/VBA/BASIC, .NET, SQL, XHTML/CSS, Prolog, Pascal, FORTRAN, and assembly language.
- Application Software: VMware Workstation, Microsoft Office, Visio, Project, FrontPage, Visual Studio .NET, SQL Server; Borland JBuilder; Mathsoft Mathcad; and Adobe Illustrator and Acrobat
- Course Management Systems: Desire2Learn