Bruce R. Maxim

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EDUCATION

University of Michigan, Ann Arbor, MI	*1970-1982*
• Doctor of Philosophy (Mathematics Education)	1982
• Master of Arts (Mathematics Education)	1974
• Bachelor of Science in Education (Mathematics)	1973

Michigan Secondary Teaching	*1973*
• Certificate	

Visiting Scholar	*March 1998-Feb 1999*
• Electrical Engineering and Computer Science	
• Advanced Technology Laboratory	
• University of Michigan, Ann Arbor, MI	

Visiting Scholar	*May 1991-June 1992*
• Electrical Engineering and Computer Science	
• University of Michigan, Ann Arbor, MI	

PROFESSIONAL EXPERIENCE

Associate Professor	*Jan 1992 - Present*
• Computer and Information Science Department University of Michigan, Dearborn, MI	

Chief Technology Officer	*Jan 2008 – May 2011*
• Sweet Spot Games Inc.	
• Silver Springs, MD	

Associate Professor	*Sept 1990 – Dec 1991*
• Mathematics and Statistics Department and Computer and Information Science Program University of Michigan, Dearborn, MI	

Assistant Professor	Jan 1985 – Aug 1990
• Mathematics and Statistics Department and Computer & Information Science Program University of Michigan, Dearborn, MI	

Visiting Assistant Professor   *Aug 1984 –Dec 1984*
- Department of Mathematics and Statistics
  University of Michigan, Dearborn, MI

Senior Programmer Analyst   *Oct 1983-Aug 1984*
- Post Graduate Medicine Department
  University of Michigan, Ann Arbor, MI

Adjunct Assistant Professor   *Sep 1983- Aug 1984*
- Mathematics and Statistics Department and
  Computer and Information Science Program
  University of Michigan, Dearborn, MI

Instructor (Part-time)   *Sep 1982-Aug 1984*
- Mathematics Department
  Washtenaw Community College, Ann Arbor, MI

Programmer Analyst   *Jun 1983-Sep 1983*
- Post Graduate Medicine Department
  University of Michigan, Ann Arbor, MI

Programmer   *Sep 1978-Jun 1980*
- Epidemiology Department
  University of Michigan, Ann Arbor, MI

Instructor   *Nov 1973-June 1978*
- Mathematics Department
  Greenhills School, Ann Arbor, MI

AWARDS AND HONORS

- Campus Distinguished Teaching Award   2015
- CECS Professor of the Year Designee   2013
- Campus Distinguished Community Service Award   2008
- Michigan Association of Governing Boards of Universities
  Distinguished Faculty Award   1992
- State of Michigan Teaching Excellence Award   1991
- Campus Distinguished Teaching Award   1990
- Outstanding Young Man of America   1988

PROFESSIONAL AFFILIATIONS

- American Society for Engineering Education

- Association of Computing Machinery, Senior Member
- Computer Society of the Institute of Electrical and Electronics Engineers, Senior Member
- International Game Developers Association
- Michigan Association of Computer Users in Learning
- Pi Mu Epsilon, Mathematics Honor Society
- Sigma Xi, The Scientific Research Society
- Society of Women Engineers, Senior Member
- Upsilon Pi Epsilon, Computer Science Honor Society

RESEARCH INTERESTS

- Software Engineering
- User Interface Design
- Computer Game Design
- Social Media
- Virtual Worlds
- Computer Science Education
- Knowledge-Based Systems

ADMINISTRATIVE SERVICE

Campus

- Director, Computer and Information Science Program   1991
- Assistant Director, Computer and Information Science Program   1985-1990
- Vice Chair, Faculty Senate   2013-2015
- Senator, Faculty Senate   1997-2000, 2008-2011, 2013-2016
- Chair, Campus Promotion and Tenure Committee   2013-2015
- Chair, Faculty Grievance Procedure Revision Committee   2014
- Chair, Information Technology Advisory Committee   1997-2001
- Chair, Administrative Data Processing Advisory Committee   1992-1995
- Chair, Campus Computing Advisory Committee   1988-1991
- Faculty Greeter, Winter Commencement   2010, 2015
- Member, General Education Requirement Task Force   2013-2014
- Member, Innovation, Collaboration, and Entrepreneurship Committee   2012-2013
- Member, Campus Promotion and Tenure Committee   2010-2012

- Member, Information Technology Task Force   2010-2012
- Member, Service Learning Task Force   2009-2010
- Member, Faculty Senate Council   1998-1999, 2010-2011, 2013-2015
- Member, Student Services Advisory Committee   2002-2006
- Member, Academic Affairs Advisory Committee   1988-1990
- Member, Faculty Grievance Committee   1997-1998, 2008-2011
- Member, Graduate Board   1997-1998
- Member, Faculty Distinguished Teaching Award Committee   1996-1999
- Member, Faculty Distinguished Research Award Committee   1993-1999
- Member, Director of Information Technology Search Committee   1996-1997
- Member, Library Information Technology Advisory Committee   1993-1997
- Member, Faculty Handbook Revision Committee   1994-1996
- Member, Information Technology Division General Council   1990-1996
- Member, Task Force on Classroom Technology   1991-1992
- Member, Working Group on Information Technology Infrastructure   1991-1993
- Member, Administrative Data Processing Advisory Committee   1990 - 1992
- Member, Campus Open House Planning Committee   1990-1991

College of Engineering and Computer Science

- Vice Chair, Experiential Learning Committee   2014-2015
- Director, High School Game Programming Competition   2014-present
- Director, High School Web Design Competition   2008-2012
- Member, CECS Record Office Director Search Committee   2012
- Member, Computing Technology Committee   1991-1999, 2010-present
- Member, E100 Task Force   2006-2009
- Member, Senior Design Task Force   2003-2009
- Member, Graduate Software Engineering Program Committee   1999-2006
- Member, Ameritech Planning Committee   1998-1999
- Member, Teaching Committee   1997-1998
- Member, Coop Program Evaluation Committee   1995-1997
- Member, World Wide Web Committee   1995-1997
- Member, Administrative Council   1991

- Faculty Advisor, Senior Design Competition   1998-present
- Faculty Advisor, Dearborn Campus Engineers   1995-Present

Department

- Co-Chair, Accreditation Committee   1990-Present
- Chair, Equipment Committee   1993-Present
- Chair, Faculty Search Committee   2000-2001
- Chair, Department Chair Evaluation Committee   1996-1997
- Chair, Curriculum Committee   1988-1995, 2001-2010
- Chair, Mathematics Equipment Committee   1990-1991
- Assessment Coordinator, BS in Software Engineering   2002-present
- Coordinator, Boy Scout Merit Badge Day   2007-present
- Coordinator, Girl Scout Badge Day   2007-present
- Coordinator, High School Gaming Day   2008-present
- Faculty Advisor, Student Design Competition   1996-Present
- Faculty Advisor, Bachelors of Science in Software Engineering   2000-present
- Faculty Advisor, Computer Science Honor Society   1990-Present
- Faculty Advisor, Cooperative Education Program   1990-1998
- Faculty Advisor, Student Chapter of the Association for
  Computing Machinery   1994-1995
- Program Advisor, Graduate Software Engineering Program   1999-2006
- Program Advisor, Minor in Computer and Information Science   1994-Present
- Program Advisor, Undergraduate Graduate Software
  Engineering Program   2000-Present
- Program Advisor, Computers and Computational Mathematics   1990-1991
- Department Representative, Community College Conference
  University of Michigan-Dearborn   1990-1994
- Department Representative, Visiting Committee Day
  School of Engineering   1991-1994
- Department Representative, Spring Commencement   1991,1992
- Department Representative, Winter Commencement   1990
- Member, Curriculum Committee   1996-1998, 2010 to present
- Member, Faculty Search Committee 1994-1995, 2001-2002, 2006-2008, 2012-2013

- Member, Visibility Committee   1992-1994
- Webmaster   1993-2008

Other

- Conference Organizer, Using the Virtual World to Improve our World,
  University of Michigan-Dearborn   2009
- Member, Editorial Board, Journal of e-Learning   2014-present
- Member, Editorial Board, Journal of Game-Based Learning   2010-present.
- Member, International Game Developer's Association
  Curriculum Framework Revision Task Force   2015-2016
- Member, Program Committee, North American Search Based
  Software Engineering Symposium   2015
- Member, Program Committee, Seventh International Conference
  on Mobile, Hybrid, and On-line Learning   2015
- Member, Program Committee, International Conference on
  Engineering Education   2013, 2014
- Member, Engineering Advisory Board, Grove City College   2011-present
- Member, Program Committee, Meaningful Play   2008, 2010, 2012, 2014
- Member, Program Committee International Conference
  on Computer Supported Education   2009, 2010, 2013, 2014, 2015, 2016
- Member, Program Committee Edutainment   2008, 2009, 2010
- Member, Program Committee Intentional Play   2008
- Member, Program Committee Future Play   2006, 2007
- Member, Steering Committee Models Educators Symposium at UML   2005
- Member, ACM/IEEE Software Engineering Education Project Committee 2002-2005
- Member, ACM/IEEE Curriculum 2001 Review Committee   1999-2001

COURSES TAUGHT

CIS 104   Pascal Programming (Course Originator)
CIS 125   Computer Science Survey (Course Originator)
CIS 150   Introduction to Computing
CIS 175   Discrete Structures
CIS 200   Programming Methods
CIS 200   Computer Science II (Course Originator)

CIS 250   Assembly Language Programming

CIS 300   Discrete Structures

CIS 350   Data Structures

CIS 350   Data Structures and Algorithm Analysis (Course Originator)

CIS 352   File Processing (Course Originator)

CIS 375   Software Engineering I (Course Originator)

CIS 376   Software Engineering II (Course Originator)

CIS 390   Software Engineering and User Interface Design (Course Originator)

CIS 400   Programming Languages

CIS 427   Computing Networks and Distributed Processing

CIS 435   Multimedia Web Design (Course Originator)

CIS 479   Artificial Intelligence (Course Originator)

CIS 487   Computer Game Design and Implementation 1 (Course Originator)

CIS 488   Computer Game Design and Implementation 2 (Course Originator)

CIS 490   Computer Game Design (Course Originator)

CIS 495   Design Seminar (Course Originator)

CIS 4951   Design Seminar 1 (Course Originator)

CIS 4952   Design Seminar 2 (Course Originator)

CIS 4961   Design Seminar 1 for Software Engineers (Course Originator)

CIS 4962   Design Seminar 2 for Software Engineers (Course Originator)

CIS 525   Multimedia Web Design (Course Originator)

CIS 565   Software Quality Assurance (Course Originator)

CIS 577   Software User Interface Design (Course Originator)

CIS 579   Artificial Intelligence (Course Originator)

CIS 587   Computer Game Design and Implementation 1 (Course Originator)

CIS 588   Computer Game Design and Implementation 2 (Course Originator)

HOURLY EMPLOYMENTS

Northeastern University. Boston, MA   *Jan 2005-Mar 2005*
- Review Graduate programs in Computer Systems
  Engineering and Information Systems.

University of Michigan, Ann Arbor, MI   *Dec 2003-Dec 2003*
- Web Usability Design and Quality Assurance, continuing education course.

Expert witness, software intellectual property dispute.   *Feb 1998-Apr 1998*

University of Michigan, Ann Arbor, MI   *Jun 1986-Jun 1990*
- Designed instructional software for medical decision making research project.

Toledo Hospital, Toledo, OH   *Apr 1985-Sep 1986*
- Provided statistical consultation to evaluate of a patient education project.

Washington Consulting Group, Washington, DC   *Jul 1984-Sep 1984*
- Developed computer software to generate graphic models of Epidemiological data.

University of Michigan, Ann Arbor, MI   *Jul 1983-Jan 1984*
- Developed computer-based mathematics courseware.

Harper & Row, Publishers, Inc., NY   *Feb 1983-Oct 1983*
- Software Designer, Programming Group Leader, Basic Level Mathematics Project.

REALM Tutoring Service, Ann Arbor, MI   *Oct 1977-Mar 1980*
- Mathematics tutor, students of all ages.

Harcourt, Brace and Jovanovich Inc., NY   *Jan 1974-Jun 1974*
- Wrote solutions for high school textbook.

Livonia Public Schools, Livonia, MI   *May 1973-May 1974*
- Substitute Teacher of Mathematics.

University of Michigan, Ann Arbor, MI   *May 1972-Aug 1972*
- Data coding, entry and analysis, Center for Research on Learning and Teaching.

GRANTS

Internal

- Maxim, B. "Distinguished Teaching Award", University of Michigan-Dearborn, Winter 2015, ($3000 PI).

- Maxim, B. "Academic Service Learning Course", Office of Civic Engagement, Winter 2014, ($500 PI).

- Maxim, B. "Academic Service Learning Course", Office of Civic Engagement, Winter 2013, ($500 PI).

- Maxim, B. "Using Social Media to Teach Engineering Process", Office of Sponsored Research, UM-Dearborn, 1/11-4/12,($6000 with $2000 PI).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CIS Team, Winter 2014, ($500 PI with K. Akingbehin).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CECS Team, Winter 2013, ($750 PI with K. Akingbehin).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CECS Team, Winter 2012, ($750 PI with K. Akingbehin).

- Maxim, B. College of Engineering and Computer Science 2011 Design Competition Advisor's Award - Winning CIS Team ($500 PI).

- Xu, Z. "Model-Driven Self Healing Software Engineering," Henry Patton Center for Engineering Education and Practice, 9/08-8/10, $60,000 (CoPI: N. Seliya, B. Maxim, and J. Guo)

- Maxim, B. "UM-Dearborn Service Learning Fellow", 2009-2010, ($1000 PI).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CECS Team, Winter 2010, ($750 PI with K. Akingbehin).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CECS Team, Winter 2009, ($750 PI).

- Maxim, B. "External Service Award", University of Michigan-Dearborn, Winter 2008, ($3000 PI).

- Maxim, B. "Distance Learning Course CIS 577", CECS Development Award, Winter 2008, ($3500 PI).

- Maxim, B, "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CIS Team, Winter 2008, ($500 PI with Akingbehin, K.).

- Maxim, B. "Game Design Laboratory", CECS Dean, Fall 2007, ($62,500 PI with Elenbogen, B.; Shen, J.; and Grosky, W.).

- Maxim, B. R. and Patel, N. "Learning by Gaming: An Immersive Environment for Teaching Kids Cursive Handwriting", CEEP, 9/07 – 8/08, ($35,000 PI).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CIS Team, Winter 2007, ($500 PI with Akingbehin, K.).

- Maxim, B. R. and Patel, N. "Learning by Gaming: An Immersive Environment for Teaching Kids Cursive Handwriting", CEEP, 9/06 – 8/07, ($26,000 PI).

- Maxim, B. "Distance Learning Course CIS 488/588", CECS Development Award, Winter 2006, ($3,500 PI).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CECS Team, Winter 2006, ($1000 PI with Patel, N.).

- Maxim, B. "Torque Game Engine Licenses", CECS Dean, Winter 2006, ($2,500 PI).

- Seliya, N. "Agile Software Engineering Laboratory", CECS Dean, Winter 2006, ($40,000 CoPI: Maxim, B.; Patel, N.; and Grosky, W.

- Maxim, B. "Distance Learning Course CIS 487/587", CECS Development Award, Fall 2005, ($3,500 PI).

- Maxim, B. "Distance Learning Course CIS/ECE 479 and CIS 579", CECS Development

Award, Spring 2005, ($6000 PI).

- Maxim, B. "College of Engineering and Computer Science Design Competition Advisor's Award - Winning CIS Team, Winter 2005, ($500 PI with Akingbehin, K.).

- Maxim, B. "Laboratory Equipment Replacement 1190EC", CECS Dean, 2004, ($40,000 PI).

- Maxim, B. College of Engineering and Computer Science 2004 Design Competition Advisor's Award –Winning CECS Team ($750 PI).

- Maxim, B. "Laboratory Equipment Replacement 1080EC", CECS Dean, 2003, ($36,000 PI).

- Maxim, B. College of Engineering and Computer Science 2003 Design Competition Advisor's Award – Winning CIS Team ($500 PI).

- Maxim, B. College of Engineering and Computer Science 2002 Design Competition Advisor's Award – Winning CIS Team ($500 PI).

- Maxim, B. College of Engineering and Computer Science 2001 Design Competition Advisor's Award – Winning CIS Team ($500 PI).

- Maxim, B.; Agius, M.; George, D.; Nagy, J. and Smojver, T. "Purchase Hardware to Support Interactive Training System", UMD Campus Grants ($275 PI).

- Maxim, B.; Kozlowski, E.; Lake, J.; and Patel, J. "Software to Support Distributed Data Collection", UMD Campus Grants ($350 PI).

- Maxim, B. College of Engineering and Computer Science Support for WWW Course Material Creation ($800 – PI).

- Maxim, B.; Deng, J.; Patel, B. and Yu, R. "Hardware to Support Distributed data Collection". UMD Campus Grants ($500 PI).

- Maxim, B.; Marcus, K.; and Blais, M. "Purchase Hardware to Support Experiments with Autonomous Intelligent Agents", UMD Campus Grants ($360 PI).

- Maxim, B. College of Engineering and Computer Science Support for WWW Course Material Creation ($2000 PI)

- Maxim, B. College of Engineering and Computer Science 2000 Design Competition Advisor's Award - Winning CIS Team ($500 PI).

- Maxim, B.; Modesitt, K.; Elenbogen, B.; and Akingbehin, K. "Purchase of Software and User Interaction Devices to Support User Interface Design and Software Engineering Instruction", 1999 Chancellor's Technology Fund, ($1,050 PI).

- Ray, I.; Ray, I.; and Maxim, B. "Design and Verification of Secure E-Commerce Protocols: DFR Model Checker License", UMD Campus Grants ($1,500 PI).

- Yoon, D., Maxim, B., et. al. "The Integration of CAD and CAM via CORBA", 1999 Chancellor's Technology Fund, ($3,000 CoPI).

- Maxim, B. "Proposal for a World Wide Web Engineering Case Study: Student Schedule Generation Tool", UMD Center for Engineering Education and Practice, ($2,000 PI).

- Maxim, B. College of Engineering and Computer Science Design Competition Advisor's Award 1999 – Winning College Team ($750 PI).

- Maxim, B. College of Engineering and Computer Science Support for WWW Course Material Creation ($400 PI).

- Maxim, B.; Modesitt, K.; and Ray, I.; and Ray, I. "Desktop Distance Learning Software", 1998 Chancellor's Technology Fund, ($3,000 PI).

- Maxim, B.; Modesitt, K.; Elenbogen, B.; Tsui, L.; and Yoon, D. "High Resolution, Portable, Multimedia Computer Projector", 1998 Chancellor's Technology Fund, ($7,000 PI).

- Maxim, B. College of Engineering and Computer Science Design Competition Advisor's Award - Winning College Team, 1998 ($1,000 PI).

- Maxim, B. College of Engineering and Computer Science Support for WWW Course Material Creation ($1,200 PI)

- Maxim, B.; Modesitt, K.; and Zhu, Q. "Supporting Development of Embedded Intelligent Software", 1997 Chancellor's Technology Fund ($3,000 PI).

- Maxim, B. and Elenbogen, B. 1997 School of Engineering Design Competition Advisor's Award ($500 PI).

- Maxim, B.; Modesitt, K.; and Kannan, R. "Supporting Collaborative Work Using Desktop Video Conferencing", 1996 Chancellor's Technology Fund ($4,000 PI).

- Maxim, B. R.; Zhu, Q; and Ray, S. "Development of a Video Conferencing Network", 1995 Chancellor's Technology Fund ($3,050 PI).

- Maxim, B. "Development of a Hashing Tool", 1993 Chancellor's Technology Fund ($1,000 PI).

- Akingbehin, K. and Maxim, B. "A Wireless Classroom Connection to CIS Local Area Network", 1993 Chancellor's Technology Fund ($2,000 PI).

- Maxim, B. "Adding an Ethics Component to the Undergraduate Computer Science Curriculum", 1992 University of Michigan-Dearborn Educational Enhancement Grant ($1,050 PI).

External: Cash

- Cristiano, J. and Maxim, B. "Campus of Hope: Using the Virtual World to Improve Our World," Ford College Community Challenge, 9/08-4/15 ($100,000 with $45,000 matching CoPI)

- Maxim, B. R. "Learning by Gaming: An Immersive Environment for Teaching Kids Cursive

Handwriting", Verizon Foundation, 9/07 – 8/08, ($9,500 PI).

- Maxim, B. R. and Grosky, W. "Educating Homo Ludens: Introducing Information Technology Through Game Design", Association of Computing Machinery Special Interest Group on Computer Science Education, 7/06 – 6/07, ($3,600 PI).

- Shen, J.; Akingbehin, K.; Maxim, B.; and Yoon, D. "Perliminary Study on Open Architecture E-Computing Center for Design in Engineering and Science", Ameritech award, 9/02-8/03 ($17,000 CoPI).

- Ray, I.; Akingbehin, K.; Maxim, B.; Ray, I.; and Zhu, Q. "Computer and Network Security Research Center", National Science Foundation 9/99 – 8/02 Research Instrumentation grant ($83,934 with $74,004 Matching CoPI).

- Maxim, B. and Elenbogen, B. "Distance Learning in Computer and Information Science Courses Using Virtual Computing Laboratories", Ameritech, ($24,500 PI)

- Akingbehin, K.; Maxim, B.; Elenbogen, B.; Tsui, L.; and Yoon, D. "Development of an Open Systems Laboratory", National Science Foundation 1994 ILI award, ($44,000 CoPI).

- Elenbogen, B.; Maxim, B.; Akingbehin, K.; Tsui, L.; and Yoon, D. "Parallel and Distributed Computing Laboratory", National Science Foundation 1994 ILI award, ($52,000 CoPI).

- Maxim, B. and Akingbehin, K. "1991 Program Development Grant", Marathon Oil Corporation ($1,500).

- Maxim, B. and Akingbehin, K. "1990 Knowledge Engineering Program Development Grant", Federal Mogul Corporation ($5,000 PI).

- Maxim, B. and Akingbehin, K. "1990 Program Development Grant", Marathon Oil Corporation ($2,000 PI).

- Maxim, B. and Akingbehin, K. "1989 Knowledge Engineering Program Development Grant", Federal Mogul Corporation ($5,000 PI).

- Verhey, R. and Maxim, B. "1989 Program Development Grant", Marathon Oil Corporation ($2,000 PI).

- Verhey, R. and Maxim, B. "1988 Program Development Grant", Marathon Oil Corporation ($2,000 CoPI).

- Verhey, R. and Maxim, B. "1987 Program Development Grant", Marathon Oil Corporation ($2,000 CoPI).

- Maxim, B. "Development of Algorithm Animation Software to Support Computer Science Instruction", 1986 University of Michigan Center for Research on Learning and Teaching Educational Enhancement Grant ($3,600 PI).

- Verhey, R. and Maxim, B. "1986 Program Development Grant", Marathon Oil Corporation ($2,000 CoPI).

External: In-kind

- Maxim, B. "2015 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2014 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2013 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B, "2012 BlackBerry Education Partner", ten BlackBerry Torch Cell Phones, five 16GB Playbooks, three 32GB Playbooks, (Hardware with estimated market value $9300 PI).

- Maxim, B. "2012 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2011 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2010 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2009 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2008 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2007 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2006 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2005 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2004 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2003 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2002 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. "2001 Oracle Educational Partner", Oracle Corporation, (Software with estimated market value $1,200,000 PI).

- Maxim, B. and Modesitt, K. "2000 Oracle Educational Partner", Oracle Corporation,(Software with estimated market value $1,200,000 PI).

- Maxim, B. and Modesitt, K. "1999 Oracle Educational Partner", Oracle Corporation,(Software with estimated market value $9,500,000 PI).

- Maxim, B. and Modesitt, K. "199 Microsoft Laboratory Software Licenses", Microsoft Corporation,(Software with estimated market value $50,000 PI).

- Maxim, B. and Modesitt, K. "1998 Oracle Educational Partner", Oracle Corporation,(Software with estimated market value $13,015,000 PI).

- Maxim, B. and Modesitt, K. "1998 Microsoft Visual Development Studio Lab Grant", Microsoft Corporation (Software with estimated market value $4,000 PI).

- Maxim, B. and Modesitt, K. "July 1997 Microsoft Developer Curriculum Project", Microsoft Corporation (Software with estimated market value $99,300 PI).

- Maxim, B. and Modesitt, K. "March 1997 Microsoft Developer Curriculum Project", Microsoft Corporation (Software with estimated market value $68,500 PI).

- Maxim, B. and Modesitt, K. "1996 Oracle Educational Partner", Oracle Corporation,(Software with estimated market value $6,500,000 PI).

- Maxim, B. and Modesitt, K. "July 1996 Microsoft Developer Curriculum Project", Microsoft Corporation (Software with estimated market value $58,500 PI).

- Maxim, B. and Modesitt, K. "1995 Oracle Educational Partner", Oracle Corporation,(Software with estimated market value $1,200,000 PI).

PUBLICATIONS

Books

Pressman, R. S. and Maxim, B. R. *Software Engineering: A Practitioner's Approach* (Korean Language), 8th Ed., McGraw-Hill, 2015.

Pressman, R. S. and Maxim, B. R. *Software Engineering: A Practitioner's Approach*, 8th Ed., McGraw-Hill, 2014.

Maxim, B. R., Software Requirements Analysis and Design, NIIT, Atlanta, GA, 2004.

Koffman, E. B. and Maxim, B. R. *Software Design and Data Structures Using Turbo Pascal*, 1st Ed., Reading, MA: Addison-Wesley, 1994.

Koffman, E. B. and Maxim, B. R. *Turbo Pascal: Problem Solving and Program Design*, 4th Ed., Reading, MA: Addison-Wesley, 1993.

Koffman, E. B. and Maxim, B. R. *Turbo Pascal: Problem Solving and Program Design with*

Advanced Topics, 4th Ed., Reading, MA: Addison-Wesley, 1993.

Maxim, B. R. *Instructor's Manual and Test Bank: Turbo Pascal*, 4th Ed., Reading, MA: Addison-Wesley, 1993.

Maxim, B. R. *Instructor's Manual and Test Bank: Pascal* 4th Ed., Reading, MA: Addison-Wesley, 1991.

Koffman, E. B. with Maxim, B. R. *Turbo Pascal: Problem Solving and Program Design*, 3rd Ed., Reading, MA: Addison-Wesley, 1991.

Maxim, B. R. *Instructor's Manual and Test Bank: Turbo Pascal*, 3rd Ed., Reading, MA: Addison-Wesley, 1991.

Koffman, E. B. with Maxim, B. R. *Turbo Pascal: Problem Solving and Program Design*, 2nd Ed., Reading, MA: Addison-Wesley, 1989.

Maxim, B. R. and Gerardi, D. *Instructor's Manual and Test Bank: Turbo Pascal*, 2nd Ed., Reading, MA: Addison- Wesley, 1989.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 1* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 2* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 3* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 4* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 5* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 6* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 7* New York: Harper Row, 1985.

Maxim, B. R. and Payne, J. N. *Computer Programs for the Classroom: Grade 8* New York: Harper Row, 1985.

Chapters in Books

Maxim, B.R. and Kessentini, M. "An Introduction to Modern Software Quality Assurance", *Software Quality Assurance*, (Ed: Mistrik, I.; Soley, R.; Grundy, J.; Tekinerdogan, B.; and Ali, N.), Morgan Kaufman, (to appear 2015).

Ammari, H.M.; Gomes, N.; Grosky, W.; Jacques, M.; Maxim, B.; and Yoon, D. "A Review of

Applications of Wireless Sensor Networks", *Wireless Sensor Networks: Current Status and Future Trends* (S. Khan, A. K. Pathan , and N.A. Alrajeh, Editors), Auerbach Publications, CRC Press, Taylor & Francis Group, USA, 2012.

Maxim, B. R. "Computer Game Design and the World Wide Web", *The Internet Encyclopedia*, Wiley, 2003.

Maxim, B. R. "UML Diagrams*" An Introduction to Object- Oriented Programming Using Java* 3rd Ed. by C. T. Wu, McGraw-Hill, 2003.

Maxim, B. R. "The Computing Industry: Current Practices and Future Directions", *Industry Reference Handbook: Computers and Software*. ed. S. McConnell, Detroit, MI: Gale Research 1998.

Maxim, B. R. "Using Turbo Pascal" *Pascal: Problem Solving and Program Design* 4th Ed. by E. Koffman, Reading, MA: Addison-Wesley, 1991.

Refereed Journals

Ammari, H.M.; Gomes, N.; Jacques, M.; Maxim, B.: and Yoon, D. "Survey of Sensor Network Applications and Architectural Components", *Ad Hoc & Sensor Wireless Networks International Journal* 25(1-2): 1-44(2015).

Maxim, B. R. and Turton, M. "Use of Teams in Game Design and Software Engineering Capstone Classes", *Global Perspectives on Engineering Management*, (Vol. 2 No. 1, February 2013: 21-26).

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Maxim, B. R. (Review) Five entries to the EDUCOM/National Center for Research to Improve Postsecondary Teaching and Learning Higher Education Software Awards Competition, May, 1990.

Maxim, B. R. and DenHaan, L. M., talk, "Student Errors in a First Pascal Course", *14th Annual Meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1990.

Maxim, B. R. and Verhey, R. F., talk, "Teaching Discrete Mathematics Using Spreadsheets*", 14th Annual Meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1990.

Maxim, B. R.; Bachelis, G. F.; James, D. A.; and Stout, Q. F., tutorial, "Introducing Parallel Algorithms in Undergraduate Computer Science Courses", *21st Annual Association for Computing Machinery Technical Symposium on Computer Science Education*, Washington, DC, February, 1990.

Wolf, F. M. and Maxim, B. R., poster, "Multihyp 1.0: A Personal Computer Program for Learning the Method of Multiple Working Hypotheses and Bayesian Reasoning in Clinical Decision Making", *1989 EDUCOM Conference on Information Technology in Higher Education*, Ann Arbor, October, 1989.

Maxim, B. R. (Review) Eight entries to the EDUCOM/National Center for Research to Improve Postsecondary Teaching and Learning Higher Education Software Awards Competition, May, 1989.

Bachelis, G. F.; James, D. A.; Maxim, B. R. and Stout, Q. F., talk, "Bringing Computing Algorithms to Life", *Detroit Area Council of Teachers of Mathematics Myriad of Mathematics*, Detroit, MI, May, 1989.

Maxim, B. R.; Bachelis, G. F.; James, D. A.; and Stout, Q. F., talk, "Parallel Computation Using Students as Processors", *13th Annual Meeting of the Michigan Association of Computer Users in Learning*, Detroit, MI, April, 1989.

Verhey, R. F. and Maxim, B. R., talk, "Spreadsheets: A Tool in the Mathematics Classroom", *13th Annual Meeting of the Michigan Association of Computer Users in Learning*, Detroit, MI, April, 1989.

Maxim, B. R., talk, "Expert System Architectures and the Problem of Knowledge Acquisition", University of Michigan School of Education, Ann Arbor, MI, March, 1989.

Bachelis, G. F.; James, D. A.; Maxim, B. R. and Stout, Q. F., talk, "Bringing Algorithms to Life: Cooperative Computing Activities for the Classroom Using People as Processors", *National Council of Teachers of Mathematics North Central Regional Meeting*, Grand Rapids, MI, March, 1989.

Maxim, B. R.; Bachelis, G. F.; James, D. A.; and Stout, Q. F.. talk, "Teaching Algorithms Using Students as Processors." *39th Annual Mathematics Education Conference of the University of Michigan*, Ann Arbor, MI, February, 1989.

Maxim, B. R. (Review) Introductory computer science manuscript, Wadsworth Publishing Company, April, 1988.

Maxim, B. R. and Guzdial, M., talk, "Exploring Artificial Intelligence Using Logo", *12th annual meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1988.

Maxim, B. R., (Review) Proposed computing supplement to mathematics text for elementary school teachers, Heath Publishing Company, March, 1988.

Maxim, B. R., (Review) Data structures text, Brown Publishing Company, January, 1988.

Wolf, F. M.; Young, M. J.; and Maxim, B. R., talk. "Will Computers Make Us Better Doctors? From Decision Analysis to Artificial Intelligence", The University of Michigan Medical School, Ann Arbor, MI, May, 1987.

Maxim, B. R., talk, "Research *Implications for Teaching Programming", 11th* Annual Meeting of the Michigan Association of Computer Users in Learning, Detroit, MI, March, 1987.

Maxim, B. R. and Elenbogen, B. S., talk, "The Role of Graphics in Teaching Algorithms", *11th Annual Meeting of the Michigan Association of Computer Users in Learning*, Detroit, MI, March, 1987.

Maxim, B. R. and Elenbogen, B. S., talk, "Teaching Programming Algorithms Aided by Computer Graphics", *18th annual Association for Computing Machinery Technical*

Symposium on Computer Science Education, St. Louis, MO, February, 1987.

Maxim, B. R. (Review) Introductory computer science Manuscript, Wadsworth Publishing Company, January, 1987.

Maxim, B. R. and Verhey, R. F., talk, "Using Appleworks to Study Numerical Methods in the High School Algebra Classroom", *46th Annual Conference of the Detroit Area Council of Teachers of Mathematics*, St. Clair Shores, MI, November, 1986.

Verhey, R. F. and Maxim, B. R., talk, "The Use of a Spreadsheet in Secondary School Mathematics", *Annual conference of the Michigan Council of Teachers of Mathematics*, Alpena, MI, October, 1986.

Maxim, B. R., talk, "An Educator's Perspective on Intelligent Instructional Systems", School of Education, The University of Michigan, Ann Arbor, MI, April, 1986.

Calhoun, J. G.; Woolliscroft, J. O.; and Maxim, B. R., talk, "Relationship Between Patient and *Expert Evaluation of House Officer Performance", 28th Annual Meeting of the American Educational Research Association*, San Francisco, CA, April, 1986.

Woolliscroft, J. O.; Calhoun, J. G.; Maxim, B. R.; MacDonald, M.; and Templeton, B., talk, "House Officer Interviewing Techniques: Impact on Data Elicitation and Patient Perceptions", *28th Annual Meeting of the American Educational Research Association,* San Francisco, CA, April,1986.

Maxim, B. R., taklk, "Teaching Data Structures", *10th Annual Meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1986.

Verhey, R. F. and Maxim, B. R., talk, "Applications of Spreadsheet Models in H. S. Math", *10th Annual Meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1986.

Maxim, B. R. (Review) Introductory computer science manuscript, Wadsworth Publishing Company, February, 1986.

Verhey, R. F. and Maxim, B. R., talk, "Using Spreadsheets in the Teaching of Secondary School Mathematics", *36th Annual Mathematics Education Conference of the University of Michigan*, Ann Arbor, MI, February, 1986.

Maxim, B. R. (Review) Introductory computer science manuscript, Wadsworth Publishing Company, December, 1985.

Wolf, F. M. and Maxim, B. R. (Review) "Industry Related Probability and Statistics Problems for Students." *The American Statistician* 39 (May 1985): 127.

Maxim, B. R., talk, "Sequencing Program Assignments", *9th Annual Meeting of the Michigan Association of Computer Users in Learning*, Detroit, MI, March, 1985.

Maxim, B. R. and Hunsche, D. F., short course, "Microcomputers in Public Health Nursing Administration", The University of Michigan Center for Continuing Education of Health

Professionals, presented at the Michigan Nursing Administrators Forum, Lansing, MI, February, 1985.

Verhey, R. F. and Maxim, B. R., talk, "Using Logo to Teach and Enhance Geometric Concepts in Grades 5-8", *35th Annual Mathematics Education Conference of the University of Michigan*, Ann Arbor, MI, February, 1985.

Maxim, B. R. (Review) National Science Foundation grant proposal MDR-8470504 concerned with videodisc-based mathematics instruction, December, 1984.

Maxim, B. R., talk, "A Comparative Overview of the Pascal Programming Language", The University of Michigan, Dearborn, MI, December, 1984.

Maxim, B. R.; Hinman, P. G.; and Goldberg J. L., (Abtract), "Development of a Laboratory Based Pre-Calculus Course", The Proceedings of the 6th National Educational Computing Conference, Dayton, OH, June, 1984.

Allen, N. P.; Wolf, F. M.; Cassidy, J. T.; Garrison, J. M.; Davis, W. K.; and Maxim, B. R., talk, "A Factor Analytic Study of the Structure of Patient Management Problems", *26th Annual Meeting of the American Educational Research Association*, New Orleans, LA, April, 1984.

Calhoun, J. G.; Woolliscroft, J. O.; Beauchamp, C.; Maxim, B. R.; Wolf, F. M.; and Hepburn, M. J., talk, "The Patient History Database: Common Medical Student Errors", *26th Annual Meeting of the American Educational Research Association*, New Orleans, LA, April, 1984.

Woolliscroft, J. O.; Calhoun, J. G.; Wolf, F. M.; and Maxim, B. R., talk,"Medical Student Interviewing in Facilities for the Aged: Impact on Medical Students, Facility Staff and Residents", *26th Annual Meeting of the American Educational Research Association*, New Orleans, LA, April, 1984.

Maxim, B. R., talk, "Developing Portable Instructional Programs", *8th Annual Meeting of the Michigan Association of Computer Users in Learning*, Grand Rapids, MI, March, 1984.

Wolf, F. M.; Allen, N. P.; Cassidy, J. T.; Maxim, B. R.; and Davis, W. K., talk, "Concurrent and Criterion Referenced Validity of Patient Management Problems." *22nd Annual Conference on Research in Medical Education*, Washington, D.C., October, 1983.

Calhoun, J. G.; Wolf, F. M.; Davis, W. K.; Maxim, B. R.; and Hull, A. L., talk, "Correlates of NBME III: Examination of Validity Coefficients of Clinical Performance", *25th Annual Meeting of the American Educational Research Association*, Montreal, April, 1983.

Calhoun, J. G.; Woolliscroft, J. O.; Beauchamp, C., Ogle, B. A.; and Maxim, B. R., talk, "An Assessment of a Psychosocial-Risk Factor Intervention Curriculum Model", 25th Annual Meeting of the American Educational Research Association, Montreal, April, 1983.

Chapman, D. M.; Calhoun, J. G.; and Maxim, B. R., talk, "The Application of Interactive Microcomputer- Videodisc Technology in Medical Education: A Prototype for Teaching Introductory Oncology", *National Student Research Forum of the American Education and Research Foundation*, Galveston, April, 1983.

Chapman, D. M.; Maxim, B. R.; Calhoun, J. G.; Daniels, L. C.; and Morton, C., talk, "Using a Videodisc- Microcomputer System for Teaching Oncology", *25ᵗʰ Annual Meeting of the Health Sciences Communications Association*, San Francisco, April, 1983.

Finch, J. S.; Donahue, A. K.; Dufek, S. R.; Church, M. J.; Maxim, B. R.; and Calhoun, J. G., talk, "The Interactive Slide Program: a Protype (?)", *25ᵗʰ Annual meeting of the Health Sciences Communications Association*, San Francisco, April, 1983.

Wolf, F. M.; Calhoun, J. G.; Maxim, B. R.; and Davis, W. K., talk, "Predictive and Incremental Validity of the New MCAT Science Problems Subtest*", Annual Meeting of the National Council on Measurementin Education*, Montreal, April, 1983.

Wolf, F. M.; Calhoun, J. G.; Maxim, B. R.; Davis, W. K.; and Hull, A. L., talk, "Comparison of the Incremental Validity of the Old and New MCAT", *25ᵗʰ Annual meeting of the American Educational Research Association*, Montreal, April, 1983.

Woolliscroft, J. O.; Calhoun, J. G.; Beauchamp, C.; Wolf, F. M.; and Maxim, B. R., talk, "Relationship Between Objective and Subjective Measurement of Medical Student History Taking", *25th Annual Meeting of the American Educational Research Association*, Montreal, April, 1983.

Blane, C. F.; Calhoun, J. G.; Maxim, B. R.; Martel, W.; and Davis, W. K., talk, "Systematic Evaluation and Increased Structure in a Radiology Elective", *31ˢᵗ Annual Meeting of the Association of University Radiologists*, Mobile, Alabama, March, 1983.

Maxim, B. R. and Payne, J. N., talk, "Teaching Percent for Mastery", *33rd Annual Mathematics Education Conference of the University of Michigan*, Ann Arbor, MI, February, 1983.

Calhoun, J. G.; Woolliscroft, J. O.; Beauchamp, C.; Ogle, B. A.; and Maxim, B. R., talk, "A Standardized System for Evaluating Medical Patient Write-ups", *21st annual meeting of the Association of American Medical Colleges*, Washington, DC, October, 1982.

Maxim, B. R., talk, "Use and Applications of Word Processors and Microcomputers in Libraries",South Central Michigan Health Sciences Libraries Association, Ann Arbor, MI, July, 1982.

MacAdam, B. A.; Ogle, B. A.; Calhoun, J. G.; and Maxim, B. R., talk, "Advantages of a Computerized Storage and Retrieval System for Utilization Statistics in a Health Sciences Learning Resource Center*", 24ᵗʰ Annual meeting of the Health Sciences Communications Association*, San Antonio, May, 1982.

Calhoun, J. G.; Davis, W. K.; Maxim, B. R.; and Erlandson, E. E., talk, "The Relationship of Surgery Clerkship Performance to Reported Levels of Responsibility", *Annual Meeting of the Association for Surgical Education*, Louisville, KY, April, 1982.

Shook, L. B.; Rogers, T. H.; Campbell, D. A.; Niederhuber, J. E.; Maxim, B. R. and Lake, L. H., (Abstract) "Instructional Television and Computer Assisted Laboratory Courses in Medical Education", *The Proceedings of the Federation of American Societies of Experimental*

Biology, Atlanta, GA, April, 1982.

Calhoun, J. G.; Hull A. L.; Maxim, B. R.; and Davis, W. K., talk, "Medical Student Clerkship Roles in an Affiliate Hospital System", *24th Annual Meeting of the American Educational Research Association*, New York, March, 1982.

Maxim, B. R., Talok, "Developing Instructional Simulations in the Health Sciences",*6th Annual Meeting of the Michigan Association of Computer Users in Learning*, Kalamazoo, MI, March, 1982.

Maxim, B. R., talk, "Problem Areas in Teaching Percent and Some Possible Solutions", *32nd Annual Mathematics Education Conference of the University of Michigan*, Ann Arbor, MI, February, 1982.

Hull, A. L; Calhoun, J. G.; and Maxim, B. R., talk, "Predicting Medical School Performance Using the Old and New MCAT", *20th annual Conference on Research in Medical Education*, Washington, D.C., October, 1981.

Calhoun, J. G.; Davis W. K.; Maxim, B. R.; and Erlandson, E. E. "A Multi-Site Comparison of Student Activities in Surgical Clerkships." Paper presented at the annual meeting of the Association for Surgical Education, Dallas, April, 1981.

STUDENT PROJECTS

Dea, T., "Interactive Search-based Software Engineering Using Machine Learning and Computational Search: Case Studies on Software Maintenance and Evolution", (Committee member – Candidate 2015.

Mansoor, U., "Detection, Merging, and Recommendation of High-Level Changes Using Multi-Objective Optimization", (Committee Member – Candidate 2014).

Mkaouer, M., "A Scalable Many-Objective Search-Based Software Engineering Framework for Model and Code Transformation" (Committee Member – Candidate 2014).

Sahin, D., "Search-Based Software Refactoring: A Mutli- Level Framework (Committee Member – Candidate 2014)

Petrenko, M. "Managing Program Dependencies in Software Evolution", PhD Dissertation Committee, Wayne State University, (Completed, October 2009).

Fife, B. "Students' Concept Patterns Revealed by Computer Analysis of Language-Constrained Science Concept Maps", EdD Dissertation Committee, Educational Technology Program, University of Michigan, Ann Arbor. (Completed, August 1997).

Balkany, A. "The Flexible Construction of Knowledge Systems with the Domain-Independent Design System (DIDS)", PhD Dissertation Committee, Electrical Engineering and Computer Science Department, University of Michigan, Ann Arbor (Candidate, 1994).

Runkel, J. "Generating Non-Brittle Model-Based Knowledge- Acquisition Tools", PhD Dissertation Committee, Electrical Engineering and Computer Science Department, University of Michigan, Ann Arbor (Candidate, 1994).

Nemala, V., "Model Transformation Testing: A Bi-level Search-Based Software Engineering Approach", Masters Thesis, (Committee Member – completed April 2015).

Boyina, R., "On the Use of Quality Attributes for Software Refactoring, Masters Thesis, (Committee Member – completed December 2014).

Namburu, S., November 2014, "Detection of High-level Model Changes as a Multi-Objective Optimization Problem, Masters Thesis, (Committee Member – completed November 2014).

Alnofal, M. "Model Merging as a Multi-Objective Problems", CIS UMD, Masters Thesis, (Committee Member - Completed January 2014).

Varadajan, A. "Design and Implementation of an Efficient Learning Tool for Pen Based Devices", Masters Thesis (Committee Member - completed May 2006).

Crossman, J. "Advanced Signal-Based Diasgnostics for Vehicle Fault Detection", Masters Thesis, (Committee Member - completed August 2000).

Lamba, A. "Design of Corporate Networks", Masters Thesis Chair, (Candidate, 2002).

Wegner, B., "Design and Implementation of a Corporate Management Reporting Information System", CIS 695 Chair, Fall 2015.

Schroeder, B., "Natural Language Query Reporting", CIS 695 Chair, Fall 2014.

Fielden, M. "Android OCR App for Check Splitting", CIS 695 Chair, Winter 2014.

Joyce, J. "Design of Game AI for Cyber Stalking Game", CIS 695 Chair, Winter 2014.

Holbert, B. "Defense Mentor", CIS 695 Chair, Fall 2013.

Wong, I. "Web System", CIS 695 Chair, Fall 2013.

Chung, K. "Kick Brick Game", CIS 695 Chair, Summer 2013.

Ellis, M. "Network Configuration Tool", CIS 695 Chair, Summer 2013.

Sabada, J. "CIS Lab Administration Software", CIS 695 Chair, Summer 2012.

Moilanen, D. "Geo-Tag Visualization", CIS 695 Chair, Winter 2012.

Habib, P. "Accushade iPhone Mobil Formula Retrieval System Application", CIS 695 Chair, Winter 2011.

Crowder, C. "Virtualization of the AGN Network ", CIS 695 Chair, Fall 2010.

Sable, M. "3D Game Combat System", CIS 695 Chair, Fall 2010.

Wilkins, P. "Tile-based Game Map Editor", CIS 695 Chair, Fall 2009.

Dutton, M. "Case Study on Project Lead Experience", CIS 695 Chair, Fall 2009.

Miller, J. "HabuNetwork: A Real Time Network Engine for Three Dimensional Simulations", CIS 695 Chair, Fall 2009.

Reterstorf, M. R. "Continuous Improvement and Cost Reduction", CIS 695 Chair, Summer 2009.

Martineau, N. "Intelligent Tutoring System for Immersive Game Environment", CIS 695 Chair, Fall 2008

Myers, C. "CSS Structural Analysis Ruleset Visualizer", CIS 695 Chair, Fall 2008.

Haddad, O. "Automated Process Area to CMMI Levels", CIS 695 Chair, Summer 2008.

Watson, J. "Scoreboard Video Graphics", CIS 695 Chair, Summer 2008.

Nelson, K. "A Comparison of the Nintendo GameCube TDEV vs. Microsoft XBOX 360 XNA Development Systems", CIS 695 Chair, Fall 2007.

Schmoll, J. "An In-Depth Evaluation of the Microsoft XNA Development Middleware and XNA Creators Club", CIS 695 Chair, Fall 2007.

Beehler, R. "Automatic Tester", CIS 695 Chair, Summer 2007. Hammill, J. "Networked Game Design", CIS 695 Chair, Winter 2007.

Lee, P. "Web-Based Learning System", CIS 695 Chair, Winter 2007.

Afinni, Y. "Document Management System Software Process Improvement", CIS 695 Chair, Summer 2006.

Muratov, F. "Web-Based Photo Archive", CIS 695 Chair, Winter 2006.

Klemish, M. "Intranet Based on MISRA Tool", CIS 695 Chair, Summer 2005.

Srinivasan, M. "A Case: Study: Implementation of Customer-Driven Software Metrics on Statistical Software Package", CIS 695 Chair, Summer 2005.

Alphonso, P. "Family Resource Management and Cohesion in Social Networks", CIS 695 Chair, Winter 2005.

Kruass, A. "3D Game Engine", CIS 695 Chair, Winter 2005.

Kucab, J. "Premium Layouts Website", CIS 695 Chair, Winter 2005.

Maratea, M. "3D Game Engine", CIS 695 Chair, Winter 2005.

Voss, R. "Case Study: Application of Six Sigma to Just-In-Time Material Flow System", CIS 695 Chair, Winter 2005.

Baker, M. "Enhanced Game AI Development Library", CIS 695 Chair, Fall 2004.

Dong, S. "Automation of Quality Audit System", CIS 695 Chair, Fall 2004.

Griffen, M. "Neural Checkers: A Checkers Like Game", CIS 695 Chair, Fall 2004.

Rose, A. "Process Quality Audit – Elecronic Bill of Material", CIS 695 Chair, Fall 2004.

Greenberg, I. "Generic Wireless Device Driver", CIS 695 Panel Member, Summer 2004 (K. Akingbehgin, Chair)

Michalek, J. "Implementing the CAN Calibration Protocol", CIS 695 Chair, Winter 2004.

Adams, D. "Analysis and Recommendations for Applying Best Practices to Improve Software Development Process for Software Components that Contain External Computer Interfaces", CIS 695 Chair, Summer 2003.

Alomari, S. "Optimistic Algorithm for Distributed Transactions in Jini - Algorithms and Implementations", CIS 695 Chair, Winter 2003.

Dibble, R. "Nine Men's Morris: A Software Implementation", CIS 695 Chair, Winter 2003.

El-Mokadem, J. "Sharelink: Document Management and Collaboration", CIS 695 Chair, Winter 2003.

Barna, M. "Analysis and Design of an Automobile Service Information System", CIS 695 Chair, Fall 2002.

Fouani, S. "PC Controls Website", CIS 695 Chair, Fall 2002.

Rayford, E. "Automated Testing System", CIS 695 Chair, Fall 2002.

Vidershain, D. "On-line Photo Album", CIS 695 Chair, Fall 2002.

Yakushev, A. "Commerce Park Library Program", CIS 695 Chair, Fall 2002.

Imam, D. "Employee Stock Option Plan: OptionNet Web System", CIS 695 Chair, Summer 2002.

Mohammed, G. "Proposal for a Private School Database Project", CIS 695 Chair, Summer 2002.

Puroll, B. "Software Risk Management in the Development of Automotive ECUS", CIS 695 Chair, Summer 2002.

Abad, M. "Implementing a Requirements Tracking Process", CIS 695 Chair, Winter 2002.

Divinagracia, H. "Part Number Analysis Tool", CIS 695 Chair, Winter 2002.

Luong, T. "Software Bugs and Software Change Control Issues Tracking System", CIS 695 Chair, Winter 2002.

Otieno, D. "Project Sphere", CIS 695 Chair, Winter 2002.

Jager, B. "Metrics of the BCBSM Find Your Representative Application", CIS 695 Chair, Fall

2001.

Trescott, R. "Knowledge Management and Engineering an Important Commercial Offspring of Artificial Intelligence, CIS 695 Chair, Fall 2001 (MSSWE).

Burrows, T. "Fast Draw Timer", CIS 695 Chair, Summer 2001. Hayton, S. "Artificial Intelligence in Abalone", CIS 695 Chair, Summer 2001.

Almhana, R., Geiger, L., Jawad, J., Purvik, P., and Ward, K. "Dine Roll Web Backend", CIS 4952/4962, Fall 2015,(Client: DineRoll).

Hewitt, N., Howell, R., Maxey, G., and Mohsen, W. "Data Collection App", CIS 4952/4962, Fall 2015, (Client: U of M Physical Medicine).

Alabolsi, N., Calahan, R., Osuji, C., and Polisuk, J. "Corporate Story Telling App", CIS 4952/4962, Summer 2015, (Client: MemLoom).

Anderson, E., Haight, J., Insco, L., and Nimmo, R. "Blutooth Billboard", CIS 4952/4962, Summer 2015, (Client: Sargon).

Baumgarner, N., Bustamante, N., and Emma, R. "Project Management System", CIS 4952/4962, Summer 2015,(Client: Mahle).

Bayyouk, I., Hermiz, R., and Schafer, K. "Order Entry System", CIS 4952/4962, Summer 2015, (Client: Merit Food Sales).

Bostic, G., Costea, A., Francis, J., and Shehaj, E. "Bad Sheriffs of the Old West", CIS 4952/4962, Summer 2015, (Client: Carl Goran).

Eberly, L., Learned, K., Russell, J., and Sharif, A. "USA Map", CIS 4952/4962, Summer 2015, (Client: Smitten Sports).

Abbott, E., Bruck, Z., Katarzis, P., and Maple, B. "Vendor Management Framework Web Application", CIS 4952/4962, Winter 2015,(Client: Blue Cross Blue Shield).

Alhindi, M., Hood, J., Paquette, J., Urema, K., and Wallace, J. "Kidnex", CIS 4952/4962, Winter 2015, (Client: Kidpreneur).

Chen, A., Fatima, W., Giryoun, M., and Torres, J. "Swim Mom", CIS 4952/4962, Winter 2015, (Client: John Cole).

Collins, J., Harris, K., Kishek, A., Sweeney, G., and Tracy, K. "History Hop", CIS 4952/4962, Winter 2015,(Client: Cara Castillo).

Evich, J., McClure, D., Morgan, R., Skaf, H., and Whyte, B. "Zombie Towers", CIS 4952/4962, Winter 2015,(Client: Carl Coran).

Sims, C., Song, T., Woodby, N., and Zhang, Z. "Pheonix" CIS 4952/4962, Winter 2015, (Client: Channel Net).

Boren, G., Necovski, J., Schubert, J., and Woitulewicz, A. "Euchre", CIS 4952/4962, Fall 2014,

(Client: Marvel Apps).

Denoyer, J., Hashem, A., Hashem, S., and West, W. "WinCC Interface to SAP", CIS 4952/4962, Fall 2014, (Client: Mahle).

El-Haik, O., Northerly, C., and Sovoda, J. "Social Media Shopping", CIS 4952/4962, Fall 2014, (Client: Sparkwant).

Gellenbeck, S. and Katarzis, K. "Latin Quiz System", CIS 4952/4962, Fall 2014,(Client: Divine Child High School).

Konja, M., Nasr, R., and Wenzel, B. "Market Analytics", CIS 4952/4962, Fall 2014,(Client: Part D Advisor).

Altai, A., Battaglia, J., Haque, M., and Khan, E. "Mobile Ordering System", CIS 4952/4962, Summer 2014, (Client: Central Park Deli).

Beaumont, A., Brown, M., and Gardner, E. "Patient Assessment Tool", CIS 4952/4962, Summer 2014, (Client: U of M School of Nursing).

Mengel, R., Seippel, C., Shunia, J., and VanHooser, C. "Sonarly", CIS 4952/4962, Summer 2014, (Client: Start Industries).

Busse, N., Farris, B., Nazzal, M., and Waldron, C., "Android OCR Application", CIS 4952/4962, Winter 2014,(Client: Sargon Partners).

Farris, J., Gildner, M., Lund, C., Robertson, K., and Thornton, N. "Social Integration Module For Open ERP", CIS 4952/4962, Winter 2014, (Client: Design Source Media).

Hawke, J., Ingrody, M., Lovatt, J., Suchara, J., and Tokarz, K. "Defensive AI for iOS Football Game", CIS 4952/4962, Winter 2014, (Client: Marvel Apps).

Khraizat, N., Magnuson, C., Nasr, A., and Schulze, B. "TradeShow Badge Capture App", CIS 4952/4962, Winter 2014,(Client: Sargon Partners).

Ma, R., Wang, D., Wang, H., and Zhang, J. "Lego MindStroms-based PEV Charging Station", CIS 4952/4962, Winter 2014,(Client: UMD ECE).

Mannario, L., Nguyen, V., Reichel, J., Sisk, J., and Voszatka, A. "MTS Pattern Recognition Framework", CIS 4952/4962, Winter 2014, (Client: Marvel Apps).

Badau, C., Desai, M., Elmathil, A., and Sharif, F. "Accounting App", CIS 4952/4962, Fall 2013, (Client: Locqus).

Beattie, A., Fawaz, D., and Hussein, I. "PRES Rx", CIS 4952/4962, Fall 2013,(Client: EMOL Health).

Cole, E., Downing, R., Holt, T., Maitland, N., and Nemeth, J. "Executive Decision Game", CIS 4952/4962, Fall 2013, (Client: Executive Decision Software LLC).

Floyd, C., Mustapha, M., Howell, J., and Major, J. "Inventory App", CIS 4952/4962, Fall 2013, (Client: Sargon Partners).

Azookari, O., Mullins, N., Najorka, N., Pranger, S., and Teskey, R. "Smarter Life Calendar", CIS 4952/4962, Summer 2013, (Client: AIMS).

Bammel, A., Chandler, J., Ferraiuolo, L., Montante, J. and Sidwell, E. "FLURP", CIS 4952/4962, Summer 2013, (Client: Locus Visual).

Bercea, J., Greenleaf, M., LaFreniere, B., Nanke, T., Odom, T., and Saab, A. "Soul City", CIS 4952/4962, Summer 2013,(Client: CAID).

Bergeski, A., Murray, J., Sergison, M., and Van Gorp, G. "Splash", CIS 4952/4962, Summer 2013, (Client: Vantage).

Kaberline, J., Mauti, N., Parasurama, and Polok, A. "Physiognomy Android App", CIS 4952/4962, Summer 2013,(Client: Edwin Green).

Arambaich, S., Lane, M.; Liu, S.; Reyes, A., and Shi, A. "Pathsee: Frontend", CIS 4952/4962, Winter 2013, (Client: Locus Visual).

Boncher, J., Dessert, N., Morabito, D., Morrison, J., Painter,D.; and Pohutski, M."Biovision", CIS 4952/4962, Winter 2013, (Client: UMD Natural Science).

Damman, M., Herbon, A., Koesck, A., and Miller, S. "Color Control Activity", CIS 4952/4962, Winter 2013, (Client: Sargon Partners).

Strong, D., Swanberg, K., Xie, H., and Zhang, Z. "Pathsee: Backend", CIS 4952/4962, Winter 2013, (Client: Locus Visual).

Oziemski, J., Tuskey, M., and Williams, A. "Samsara", CIS 4952/4962, Winter 2013, (Client: College of Creative Studies).

Arena, T., Hall, C., Kelly, J., and Shunia, R. "All Eyes On", CIS 4952/4962, Fall 2012, (Client: WSU Medical School).

Ezidi, O., Loganathan, N., Nwosu, A., and Olsen, B. "PRES: EMR Tablet Application for Oncology", CIS 4952/4962, Fall 2012,(Client: EMOL Health).

Howard-Gumbs, J., Hamissou, A., Miller, E. and Suthar, A. "Engineering Change Management System", CIS 4952/4962, Fall 2012, (Client: Siemens).

Hight, E., Laypa, V., and Resnick, M. "Tax Aide Scheduler And Logger", CIS 4952/4962, Fall 2012, (Client: AARP).

Almehairi, O., Boncher, A., Ferrente, C., and Wu, S. "Customer Support Satisfaction Survey", CIS 4952/ 4962, Summer 2012, (Client: Day Smart Software).

Baker, J., Noyes, A., Rigney, T., and Wegiel, M. "Footprint Android Mobile", CIS 4952/4962, Summer 2012, (Client: American Institutional Management Services).

Bury, D., Purchase, C., Tait, C., and Toth, J. "Windows Phone 7 Application", CIS 4952/4962, Summer 2012, (Client: Day Smart Software).

Baker, C., Krupp, B., Perry, S., and Woodruff, S. "Senal Geo Tracking", CIS 4952/4962, Winter 2012, (Client: Sargon Partners).

Blair, D., Collins, B., Dai, Q., Hajalie,M., Li H., and Manuel, R. "Apple Distributed Server", CIS 4952/4962, Winter 2012, (Client: CVPC/TARDEC).

Darby, G., Jandou, R., Maciolek, D.,Papo, M., andSchanck, M. "Space Commander", CIS 4952/4962, Winter2012, (Client: Jon Lawlead).

Delaney, S., Dillon, B., and Schultz, R. "ProjectNarwhal", CIS 4952/4962, Winter 2012, (Client: Random Salad Games, LLC).

Gogineni, S., Hodges, J., Maghear, L., and Valabhaney, S. "Authentication Utilizing NFC/RFID Technology", CIS 4952/4962, Winter 2012,(Client: CVPC/TARDEC).

Anthony, D., Kotrych, R., and Sloan, J. "Business Portal", CIS 4952/4962,Fall 2011, (Client: Sargon Partners).

Bridges, Z., Comben, T., King, B., and Lampi, J., "Database Visualization", CIS 4952/4962, Fall 2011, (Client: CEO Image).

Hudson, J., McIntyre, C., and Schiller, J. "Cyber High School Curator Project", CIS 4952/4962, Fall 2011, (Client: Westwood Cyber High School).

Alade, O., Maylone, C., Pydyn, S., Smereka, S., and Wolford, M. "Ford Sync", CIS 4952/4962, Summer 2011, (Client: Ford Motor Company).

Beddow, E., Catt, B., Modlin, D., and Tucker, E. "STEM Facebook Project", CIS 4952/4962, Summer 2011, (Client: UMD CIS).

Gorial, S. and Wollum, C. "Mac Encryption", CIS 4952/4962, Summer 2011,(Client: Joe Pillera, LLC).

Johnson, A., McMullen, R., and Rivera, K.. "Document Delivery System", CIS 4952/4962, Summer 2011, (Client: Detroit Regional Chamber).

Patmalnieks, E., Portelli, M., and Shaw, V. "Footprint Social Networking Tool", CIS 4952/4962, Summer 2011, (Client: Waseem Younis).

Allen, C., Petrtyl, D,, Rose, L. and White, J. "Nassi- Scheiderman Programming Tool", CIS 4952/4962, Winter 2011, (Client: UMD CIS Department).

Briley, S., Kulczyk, C., and Sherron, M. "Kingdoms of Arkedonia", CIS 4952/4962, Winter 2011, (Client: John Baugh).

Hoffman, S., Papke, J., Paull, A., and Smith, N. "Suite Management System", CIS 4952/4962, Winter 2011, (Client: Olympia Entertainment).

McClure, B., Mills, J., Pearce, M., and Smudz, M. "The Nut House", CIS 4952/4962, Winter 2011, (Client: Little Nutthings).

Latrach, H. and Swanberg, C. "Library Instruction Game", CIS 4952/4962, Winter 2011, (Client: UMD Library).

Valentin, M. and Schwartz, M. "CryptoForAll", CIS 4952/4962, Winter 2011, (Client: Pillera & Associates, LLC).

Anderson, N., Chan, L., Loila, J., and Tong, W. "Cooking Matters for Kids", CIS 4952/4962, Fall 2010, (Client: Gleaners, Inc).

DeMonaco, C., Foster, G., Girard, M., Supplee, D., Tabaka, T., and Tamouch, T. "University of Michigan-Dearborn Android and iPhone App", CIS 4952/4962, Fall 2010, (Client: UMD Admissions).

Elner, D., Huber, G., and Nuculaj. "Descriptionary ONLINE", CIS 4952/4962, Fall 2010, (Client: David Lawerenchuk).

Farrugia, B., Lance, J., Skelly, C., and Vezinza, A. "Penguicon Software Suite – The Bazaar", CIS 4952/4962, Fall 2010, (Client: Penguicon).

Hagen, A. and Mitchell, K. "UM-D Wireless Printing", CIS 4952/4962, Fall 2011, (Client: UMD ITS).

Crispen, J., Haddad, D., Lazere, A., and Schiebold, A. "Concise Client Relation Management System", CIS 4952/4962, Fall 2010, (Client: Concixe Computer Consulting, LLC).

Holbert, B., Keling, S., Rahmani,M., Samet, C., and West, A. "SIM-i-TRI", CIS 4952/4962, Fall 2010, (Client: UMD IAVS).

Muir, R., Hussein, A., and Okeke, U. "MemClip iPad Application", CIS 4952/4962, Fall 2010, (Client: Adaptive Campus).

Colony, C., Chmielowski, K., Tuglan, V., Vela, D., and Wesley, A. "MemCath Ad Platform", CIS 4952/4962, Winter 2010, (Client: Adaptive Campus).

Fareed, Z., Fesler, J., Payton, D., and Zhu, G. "Skills Inventory Upgrade Database", CIS 4952/4962, Winter 2010, (Client: Custom Business Solutions).

Gilson, E., Palgut, J., and Welker, A. "The Drink Exchange", CIS 4952/4962, Winter 2010, (Client: Tommy Torch LLC).

Gruenke, P., Matthews, M., Palmer, P., and Thompson, K. "A Virtual Shopping Experience", CIS 4952/4962, Winter 2010, (Client: Gleaners Inc,).

Atkins, C., Decker, R., Holly, M., and Morillo, R. "Mimic: Electronic Medical System", CIS 4952/4962, Summer 2009, (Client: Dr. Edward Lichten).

Duncan, L., Hicks, B., Kancharla, V., Koudlo, D., and Porter, B. "Personal Research Manager", CIS 4952/4962, Summer 2009, (Client: Adaptive Campus).

Goodykoontz, G., Kaldobsky, J., and Mahaffey, D. "Cardiology Skill builder for the iPhone", CIS 4952/4962, Summer 2009, (Client: University of Michigan, Medical School LRC).

Ansolis, D., Centala, D., Claus, A., Costello, S., and DeBoever, T. "Campus of Hope Food Challenge", CIS 4952/4962, Winter 2009 (Client: Gleaners Inc.).

Curly, A. and Martin, B. "Second Life Presenter", CIS 4952/4962, Winter 2009,(Client: UMD CIS Department).

Hawrot, B., Hill, T., Kassir, A., Masri, R., and Nolin, W. "Second Life Hunger Exhibit", Winter 2009, (Client: Gleaners Inc.)

Kowalski, T., Lawrenchuk, D, Stier, L. amd Xiong, K. "Fetch my Music", CIS 4952/4962, Winter 2009, (Client: Ruck Technologies).

McConnell, A., Pieprzak, C., and Zammitt, A. "Contractor Web-Based Ordering System", CIS 4952/4962, Winter 2009. (Client: Fence Giant).

Matyzewski, K. and Muhsen, M. "Comprehensible Outcome- Based Evaluation System", CIS 4952/4962, Fall 2008, (Client: UMD CECS).

Batsford, A., Dusaj, M., Harris, S., Korycinski, D., and Kremer, R. "Check Processing System", CIS 4952/4962, Summer 2008 (Client: A & W Party Store).

AlRamli, N., Bute, M., and Chaudhari, V. "Change ControlSystem", CIS 4952/4962, Summer 2008,(Client: Karmanos Cancer Institute).

Lahoud, J., Ketchman, S., and Maczka, W. "The Landing – Social Networking Website", CIS 4952/4962, Summer 2008(Client: Teicor Inc.).

Gilbert, M. and Sable, M. "Pickle's Pond Paradise Mini- Games", CIS 4952/4962, Summer 2008, (Client: UMD CIS Department).

Bonkowski, K.; Malenfant, A.; and Perry, P. "On-line Bid Room", CIS 4951/4952, Winter 2008 (Client: Fence Giant).

Brogowski, J.; Russo, J.; and Yorick, K. "Document Viewer", CIS 4961/4962, Winter 2008 (Client: CEO Image).

Charlton, C.; Farhat, H.; and Rodriguez, B. "Perfume Web Store", CIS 4961/4962, Winter 2008 (Client: Perfume Counter, Inc.).

Davis, R.; Sabada, J.; and Whitehead, N. "Engine Diagnostic Tool", CIS 4961/4962, Winter 2008, (Client: Detroit Diesel).

Diener, H.; Hudec, S.; and Kisonas, R. "College Sports Recruitment Web Site", CIS 4951/4952, Winter 2008, (Client: Go Daddy).

Garcia, A.; Ghalib, B.; Musu, E.; and Stokes, A. "Speech Audio to Text Software", CIS 4961/4962, Winter 2008, (Client: DSS Corporation).

Duru, A.; Hojnacki, D.; and Sheets, J. "Faculty Assessment Web Site", CIS 4961/4962, Fall 2007 (Client: UMD CIS).

Hardy, M.; Heiden, T.; and Mustafa, M. "Ida Party Tent Electronic Suite", CIS 4961/4962, Fall

2007, (Client: Ida Party Tent).

Manard, M.; Tarabah, S.; and Xie, X. "Street Smart Detroit", CIS 4961/4962, Fall 2007, (Client: City Connect Detroit).

VanTuyl, D. and Pasco, R. "Swipple.com", CIS 4951/4952, Fall 2007, (Client: Swipple Art Company).

Berryman, M.; Tluczek, S.; and Walker, J. "Engine Data Compression Tool", CIS 4961/4962, Winter 2007, (Client: Detroit Diesel).

Alff, M.; Isayeva, R.; Keitzman, D.; and Kowaleski, S. "Interactive Accreditation System", CIS 495, Fall 2006,(Client: UMD CIS).

Assenmachner, M.; Faligowska, M.; Kropniak, J.; and Mezza, N. "Jeopardy Game System", CIS 495, Fall 2006, (Client: Detroit Area Council, BSA).

Baidoun, M.; Blebea, L.; Brenner, I.; and Seblini, A. "Contact List Management System", CIS 495, Fall 2006, (Client: Orchard, Hiltz, McCliment, Inc.).

Kinnunen, P. and Sanz, C. "City of Dearborn Police Department Database", CIS 495, Fall 2006, (Client: City of Dearborn).

Abughannam, N.; Choppa, M.; Leach, M.; and Martineau, N. "Graphical Document Browsing System", CIS 495, Summer 2006, (Client: CEO Image Inc.).

Alkatib, O.; Al-Shara, M.; Edwards, K.; Hadi, S.; and Moussa, E. "City Beautiful Award Database", CIS 495, Summer 2006, (Client: City of Dearborn).

Bhavsar, N.; Buckner, J.; and Harms, S. "Inventory Management System", CIS 494, Summer 495, (Client: WAN Solutions).

DeAngelis, D.; Kelley, D.; Odolean, A.; and Strimpel, D. "Chess Tournament Registration Website", CIS 495, Summer 2006, (Client: Michigan Chess Association).

Gabarra, F.; Hilt, D.; Khalaileh, R.; and Thomas, C. "Ford Motors Production Downtime Event Analysis", CIS 495, Summer 2006, (Client: Ford Motor Company).

Hojnacki, R.; Lowe, J.; Nardecchia, J.; and Wilkins, P. "Arrow Database System", CIS 495, Summer 2006, (Client: Arrow Building Company).

Sarkisova, D.; Sater, H.; Siddiqui, B.; and Wright, E. "Web-Based Employee Management Tool", CIS 495, Summer 2006, (Client: Dr. Myaghi, DDS).

Attard, J.; Choike, J.; and Cross, C. "SimTraffic3D", CIS 495, Fall 2005 (Client: UMD CIS).

Casing, M.; Myslinski, S.; Pugh, T.; and Squillets, J. "Dealer Reporting Tool", CIS 495, Fall 2005 (Client: Urban Science).

Coan, J.; Lesnieski, C,; and Wolford, J. "Home Inspection Scheduling Software", CIS 495, Fall 2005 (Client: City of Dearborn).

Granz, J.; Hedges, A.; Smith, C.; and Symons, G. "Tracking Tool", CIS 495, Fall 2005 (Client: Blue Cross Blue Shield).

Ahmad, M.; McTaggart, S.; and Patel, A. "Apartment Search.com", Summer 2005, (Client: Tecknolink Inc.)

Almawri, W.; Haddad, O.; and Patel, K. "Auto Repair and Towing Market Analysis Tool", Summer 2005, (Client: EZ Go Towing).

Assenov, I.; Le, L.; and Melkumov, T. "CEO Image File Viewer", CIS 495, Summer 2005, (Client: CEO Image).

Coffey, E.; Joneja, V.; Lorenzetti, C.; and Khaled, S. "UML Transformation Rule Editor", Summer 2005, (Client: Yazaki).

Cooper, S.; Fick, D.; Rak, R; and Sandrowicz, B. "On-line Assessment Tools", Summer 2005, (Client: UMD CIS).

Malcolm, A,; Muniga, C,; and Skinner, J. "Durr Systems Employee Training Database", Summer 2005, (Client: Durr Systems).

Beemer, M.; Othman, H.; Salameh, A.; and Vandall, J. "Wireless Harness", CIS 495, Summer 2004 (Client: UMD CIS).

Cheaito, A.; Cheaito, M.; Jamal, R.; and Nasro, H. "Web Services Project", CIS 495, Summer 2004, (Client: UMD CIS).

Dodes, M.; Fayz, A.; and Waineo, M. "Data Import Module", CIS 495, Summer 2004, (Client: CEO Image).

Altoun, B.; Calhoun, D. and Elliot, R. "Automatic Disk Backup System", CIS 495, Winter 2004, (Client: CEO Image).

Awad, J.; Azimi, S.; Bhatti, M.; and Hatkar, R. "Cub Camping Interactive CD", CIS 495, Winter 2004, (Client: Detroit Area Council, BSA).

Barnes, D.; Bowers, P.; Kapur, S.; and Stashk, I. "Parametric Model Converter", CIS 495, Winter 2004,(Client: UMD Advanced Vehicle Laboratory).

Brown, C.; Grant, C.; and Musa, H. "On-line Store", CIS 495, Winter 2004, (Client: Oliver's Pizza).

Connors, B.; Suarez, B.; and Taylor, C. "On-line Psychiatry Journal Web Site", CIS 495, Winter 2004, (Client: Muslim Mental Health).

Cunningham, D.; Outland, G.; and York, P. "Data Import Module", CIS 495, Winter 2004, (Client: CEO Image).

Czarnomski, C.; Reasons, E.; and Zabelin, S, "On-line Tracking Database", CIS 495, Winter 2004, (Client: Lockheed Martin).

Ahwal, S.; Birbauer, K.; Towne, K.; and Turchen, J. "Hometown Digital", CIS 495, Winter 2003, (Client: Hometown News).

Alleban H.; Chaar, W.; and Safienddine, K. "?" CIS 495, Winter 2003, (Client: Vipul Pharmaceutical).

Bergman, P.; Gorial, S.; and Gruden, J. "Small Business System", CIS 495, Winter 2003, (Client: Midwest Maintenance).

Castiglione, C.; Khreis, H.; and Kocherovsky, R. "CIS Website Re-Engineering", CIS 495, Winter 2003, (Client: UMD CIS).

Chenoweth, R.; Dein, A.; Ishibashi, R; and Sathe, S. "Tuition Assistance System", CIS 495, Winter 2003,(Client: CEO Image).

Condon, J.; Corbett, A.; Furton, C.; and Williams, C. "Multicasting Disk Image Copying System", CIS 495, Winter 2003, (Client: Southgate Public Schools).

Costello, R. and Kakos, A. "Small Office Network Design", CIS 495, Winter 2003, (Client: Creative Controls).

Crabil, K.; Grewal, N.; and Ruck, G. "Web-Based Educational Management Tools", CIS 495, Winter 2003, (Client: Shifa Foundation)

Kaszyca, S.; Nizol, M.; and Patel, A. "Web Trouble Tracking System, CIS 495, Winter 2003, (Client: BRT Inc.).

Ohou, E.; Osuagwu, U.; Patel, M.; and Shehu, D. "3D JavaDevelopment for CAD Collaboration", CIS 495, Winter 2003, (Client: UMD CIS).

Ansolis, M. and Lee, P. "Banquet Planning System", CIS 495, Summer 2002, (Client: Holiday Inn).

Burhani, H.; Hamadeh, R.; Mass, M.; and Pierson, J. "Tree Animation Tool", CIS 495, Summer 2002. (Client: UMD CIS).

Dozbush, R.; Hetra, K.; and Opper, P. "Hometown Intranet", CIS 495, Summer 2002. (Client: Observer and Eccentric Newspapers).

Elamin, H.; Jawad, A.; Ibrahim, R.; and Trann, H. "Project Management Tool", CIS 495, Summer 2002. (Client: Atlas Copco Tools and Assembly).

Foucher, C.; Munzeberger, B.; and Saims, M. "CPU32Bug Simulator", CIS 495, Summer 2002. (Client: UMD CIS).

Granz, C.; Richardson, J.; and Scaria, T. "Web-Based Career Path Planning System", CIS 495, Summer 2002. (Client: Down River Schools).

Lakhnkia, V.; Patel J.; and Patel, P. "Web-Based Project Management Tool", CIS 495, Summer 2002. (Client: Siemens ICN/Henry Ford Health Systems).

Lee, W.; Mann, C.; Osipov, E.; and Redensky, E. "Web- Based Information System", CIS 495,

Summer 2002. (Client: LDW & Associates).

Mansour, R.; Sauerwald, C.; and West, S. "E-commerce Site", CIS 495, Summer 2002. (Client: The Wireless Store).

Mounzer, R.; Nasser, H.; and Afini, J. "Waste Management Inspection Tracking System", CIS 495, Winter 2002 (Client: Michigan Department of Environmental Quality).

Peterson, R. and Sherman, K. "Image Processing Tool", CIS 495,Summer 2002. (Client: CEO Image).

Pesale, R. and McLaughlin, M. "Historical Society Web Site", CIS 495, Winter 2002 (Client: Allen County - Fort Historical Society Web Site).

Schneider, C.; Patel, G.; and Lucaj, M. "EASI Project Request System", CIS 495, Winter 2002 (Client: DTE Energy).

Sherman, B.; Kaatz, J.; and Brimacombe, B. "Workflow Management System", CIS 495, Winter 2002 (Client: CEO Image).

Uddin, A.; Siddiqui, S.; Hussain, F.; and Zakhar, N. "Business Solutions Today Job Posting Web Site", CIS 495, Winter 2002 (Client: Technolink).

Agius, M.; George, D.; Nagy, J.; and Smojver, T. "The Wood Badge Game Show and Game Show Builder", CIS 495, Summer 2001 (Client: Detroit Area Council BSA).

DuFour, M.; Lundy, C.; and Roman, E. "ECM Technologies Web Site", CIS 495, Summer 2001 (Client: Technolink).

Flilippine, S.; Chaaban, M.; Calus, R.; Casey, C.; and Oberoi. "On-Line Catalog Ordering System", CIS 495, Summer 2001 (Client: Exotica Bridal Salon).

Fountain, I.; Lam, M.; and Widener, N. "Workflow Management System", CIS 495, Summer 2001 (Client: CEO Image).

Lloyd, B.; Bazzi, H.; Psakhis, B.; and Khalife, M. "Customer Feedback Automation Web Site", CIS 495, Summer 2001 (Client: Penske Automotive).

Asher, R.; Kottamatsu, K.; Patel, M. and Patel, S. "Data Dictionary Editor", CIS 495, Winter 2001 (Client: Work Force Software).

Connors, P.; Leonard, M.; and Wallag, S. "Technical Information Intranet", CIS 495, Winter 2001 (Client: Ford Motor Company).

Czonka, B.; Jacobsen, D.; and Watson, B. "UPS Shipping Automation System", CIS 495, Winter 2001 (Client: Run-Time Computing).

Franklin, C.; Kallio, E.; Stobe, B. and Majeran, N. "Web Based Adaptable Process Model", CIS 495, Winter 2001 (Client: Roger Pressman and Associates).

Lake, J.; Kozlowski, E.; and Patel, J. "Waste Management Inspection Tracking System", CIS

495, Winter 2001 (Client: Michigan Department of Environmental Quality).

Adam, P.; Gershanovich, I.; Nizich, J. and Wicsorek, K. "Workflow Management System", CIS 495, Winter 2001 (Client: CEO Image).

Ayoub, T.; Romanowski, M.; Shah, K.; and Tyree, K. "Auction Web Site", CIS 495, Summer 2000 (Client: Farmer's Auction Service).

Aoude, F.; Code, D.; and Van Dyne, A. "Java Applet to Animate Hash Table Operations", CIS 495, Summer 2000 (Client: UMD CIS).

Couch, J.; Ellis, M.; Ostrovetz, C.; and Wackro, C. "Web- Based Course Scheduling Voting System", CIS 495, Summer 2000 (Client: UMD CIS)

Demich, R. and Roehr, L. "Screen Saver for Mardigian Library Kiosk", CIS 495, Summer 2000, (Client: Mardigian Library Art Museum).

Kapadia, H.; Patel, J.; and Patel, T. "Graphics User Interface for Secure E-mail System", CIS 495, (Client: UMD CIS Computer Security Center).

Campbell, G.; Morris, C.; Lawrence, T.; and Mehta, S. "Web-Based Query Generator", CIS 495, Winter 2000 (Client: Hometown News).

Deng, J.; Patel, B.; and Yu, R. "Waste Management Inspection Tracking System", CIS 495, Winter 2000(Client: Michigan Department of EnvironmentalQuality).

Dronsela, J. and Mohamed, G. "Java Applets to Support Mathematics Instruction", CIS 495, Winter 2000(Client: UMD Mathematics Department).

Fuller, S.; Fracassa, R.; Farida, J.; and Trinh, C. "Database Management System to Report on Client Profitability", CIS 495, Winter 2000 (Client: Koch-McNabb Resources).

Nugent, A.; Crispen, N.; Kutcher, G.; and Murrad, D. "Java Applets to Animate Linear Data Structure Operations", CIS 495, Winter 2000 (Client: UMD CIS).

Schmoll, J.; Nelson, K.; Forster, M.; and Lord, W. "Game Forge: A Tool to Aid in the Development of DirectX Games", CIS 495, Winter 2000 (Client: UMD CIS).

Beadle, T.; Hagbloom, C.; and Overby, J. "Print Support and Tracking System", CIS 495, Summer 1999 (Client: Ford Motor Company).

Clemons, K.; Nash, K.; and Scuereb, S. "DEQ Enforcement Monitoring Database", CIS 495, Summer 1999 (Client: State of Michigan Department of Environmental Quality).

Elzeny, D.; Hirata, N.; Mehi, D.; Raredon, J. and Williams, C. "Web-based C++ Programming Test Bed", CIS 495, Summer 1999 (Client: UMD CIS).

Fatalevich, S.; Fouani, S.; and Wang, X. "CIS Lab Administrative Software", CIS 495, Summer 1999 (Client: UMD CIS).

Girrbach, K. "Emergency Roadside Service Bonus Tracking System", CIS 495, Summer 1999

(Client: AAA Michigan).

Leach, R.; Liang, S.; and Mathcynski, M. "Web-based Jewelry Store", CIS 495, Summer 1999. Russell, D. and Hirata, N. "Incident Tracking System", CIS 495, Summer 1999.

Thomas, P. and Vyas, G. "Waranty and Support Information System", CIS 495, Summer 1999.

Torman, E.; Vidershain, D.; and Yakushev, A. "Java-based Animated Sorting Tool", CIS 495, Summer 1999 (Client: UMD CIS).

Bauer, T.; Hinkle, D.; and Jager, B. "Digital Image Library Project", CIS 495, Winter 1999 \ (Client: UMD ECE).

Branham, J.; Schulde, A.; and Szoke, C. "Tree Animation Applications", CIS 495, Winter 1999 (Client: UMD CIS).

Chevela, C.; Davanzo, N.; and Hart, M. "Educational Technology Distance Learning Course", CIS 495, Winter 1999 (Client: UMD School of Education).

Marchetti, M. and Miller, D. "Science Learning Center On-Line Modules", CIS 495, Winter 1999 (Client: UMD Natural Science).

Abushar, S.; Patel, T.; Sharplin, B; and Bdeir, M. "Web-based Conferencing System", CIS 495, Summer 1998 (Client: UMD CIS).

Andzalik, J.; Szlaga, M.; and Tran, H. "Windows NT Web Server" CIS 495, Summer, 1998 (Client: UMD School of Education).

Grocki, M. and Jones, D. "Tree Animation Software", CIS 495, Summer, 1998 (Client: UMD CIS).

Hammelef, J.; Miller, S.; Tran, T; and Vitale, A. "Digital Image Library Project", CIS 495, Summer 1998 (Client: UMD ECE).

Abdelgawad, M.; Serlin, W.; and Starks, K. J. "Zenacomp Website Development Project", CIS 495, Winter 1998 (Client: Zenacomp).

Bergman, R,; Philpot, R.; and Tampus, M. "University of Michigan Course Information System", CIS 495, Winter 1998 (Client: UMD CIS).

Bodea, C.; Falis, M.; and Howell, B. "Instructor Class Scheduler", CIS 495, Winter 1998 (Client: UMD CIS).

Bozman, C.; Ehlert, A.; Horvath, S.; and Presnell, J. "United Technologies Automotive Intranet Project", CIS 495, Winter 1998 (Client: United Technologies Automotive).

Crossman, J.; Hay, T.; and Ruthinowski, D. "Java-based Simulation of Dynamic Problems Involving Newton's Second Law", CIS 495, Winter 1998 (Client: UMD Natural Science).

Dohring, A.; Espinosa, R.; and Ianni, M. "chEManime: Software for Animating Motion of Organic Molecules", CIS 495, Winter 1998 (Client: UMD Natural Science).

Domeier, J. and Seratos, L. "Web Pages Supporting Instruction in Geological Science Courses", CIS 495, Winter 1998 (Client: UMD Natural Science).

Dooley, D. and Fritz, W. "Virtual Community Software Prototype", CIS 495, Winter 1998.

Ferrel, D.; Ging, D.; Holmes, D.; and Kiryakoza, S."Zenacomp Intranet Project", CIS 495, Winter 1998, (Client: Zenacomp).

Kakarlapudi, R. and El-Mokadem, J. "Mathematics On-line Homework Submission System", CIS 495, Winter 1998(Client: UMD Mathematics).

Callahan, S.; Nasaer, N.; and Oros, I. "Shipping and Receiving System for Giffen International", CIS 495, Fall 1997 (Client: Giffen International).

Daksiewicz, R.; Juska, P.; and Markarewicz, J. "Office of Facilities Planning - Floor Plan Project", CIS 495, Fall 1997 (Client: UMD Facilities Planning).

Davis, M.; Mussani, I/; Putz, D.; and Samaan, D. "Xytec Website Project", CIS 495, Fall 1997 (Client: Xytec).

Achkar, M.; Naddaf, G.; Rahal, C.; and Rounisto, T. "Career Services Employer Database", CIS 495, Winter 1997 (Client: UMD Career Planning and Placement Office).

Atisha, N.; Lee, M.; and Murad, C. "Algorithm Animation Software", CIS 495, Winter, 1997 (Client: UMD CIS).

Cooper, M.; MacLennan, A.; Marquis, R.; Tustanowski, R. "Student Course Scheduling Project", CIS 495, Winter 1997 (Client: UMD CIS).

Dagher, L.; Hurley, P.; and Phillips, J. "E-mail List Manager", CIS 495, Winter 1997 (Client: UMD CIS).

DeMeere, B. "Business Forecasting System", CIS 495, Winter 1997.

Elhajji, A. "Prototype for an Underwater Keyboard", CIS495, Winter 1997 (Client: UMD Behavioral Sciences).

Formosa, D.; Kelenski, M.; Spiers, J.; and Villareal, J. "Touch Screen Multimedia Kiosk", CIS 495, Winter 1997 (Client: UMD Margian Library).

Lau, W.; Lowder, T.; McLachlan, J.; and Vitale, K. "I. D. Components and Replacement Distributed Inventory Control System", CIS 495, Winter 1997.

Luttermoser, D.; McDonald, L.; and Turczyn, D. "Algorithm Analysis Project", CIS 495, Winter 1997 (Client: UMD CIS).

Place, R. and Randolph, E. "United Parcel Service Rate Shopping Program", CIS 495, Winter 1997 (Client: UPS Livonia).

Anstett, T.; Freiberg, R.; Galyon, H.; Konopka, M.; Miller, B.; and Schunder, M. "Algorithm Animation Using Java", Winter 1996 (Client: UMD CIS).

Barna, M.; Hartwig, K.; and Bhatia, R. "Campus Navigation System", CIS 495, Winter 1996 (Client: UMD CIS).

Stoner, L. "System for Converting Data Files to Oracle Database", CIS 495, Winter 1996 (Client: UMD ITS).

OUTREACH ACTIVITIES

- 3D Game Launch, April 2015, 43 participants, organizer.

- High School Game Programming Competition, March 2015, 22 participants, contest director.

- Girl Scout Badge Workshop, March 2015, 36 students, course director.

- Gaming Day, February 2015, 45 students, course director.

- Boy Scout Programming Merit Badge, January 2015, 32 students, course director.

- 3D Game Festival, December 2014, 70 participants, organizer.

- Boy Scout Game Design Merit Badge, November 2014, 42 students, course director.

- Girl Scout Badge Workshop, November 2014, 41 students, course director.

- 2D Game Festival, October 2014, 50 participants, organizer.

- Girl Scout Badge Workshop, October 2014, 38 students, course director.

- 3D Game Launch, April 2014, 28 participants, organizer.

- High School Game Programming Competition, March 2014, 18 participants, contest director.

- Gaming Day, February 2014, 47 students, course director.

- Boy Scout Programming Merit Badge, January 2014, 41 students, Course director.

- 3D Game Festival, December 2013, 50 participants, organizer.

- Boy Scout Game Design Merit Badge, November 2013, 48 students, course director.

- 2D Game Festival, October 2013, 50 participants, organizer.

- Girl Scout Badge Workshop, October 2013, 48 students, course director.

- 3D Game Launch, April 2013, 50 participants, organizer.

- Bring Your Child to Work, Game Design Workshop, April 2013, 30 students, instructor.

- High School Web Programming Competition, March 2013, 14 participants, contest director.

- Gaming Day, February 2013, 50 students, course director.

- Boy Scout Computing Merit Badge, January 2013, 41 students, course director.

- 3D Game Festival, December 2012, 40 participants, organizer.

- 2D Game Festival, October 2012, 50 participants, organizer.

- 3D Game Launch, April 2012, 50 participants, organizer.

- High School Web Programming Competition, March 2012, 18 participants, contest director.

- Gaming Day, February 2012, 50 students, course director.

- High School Game Programming Workshop, January 2012, 30 students, instructor.

- Boy Scout Computing Merit Badge, January 2012, 45 students, course director.

- 3D Game Festival, December 2011, 40 participants, organizer.

- 2D Game Festival, October 2011, 50 participants, organizer.

- 3D Game Launch, April 2011, 48 participants, organizer.

- High School Web Programming Competition, March 2011, 18 participants, contest director.

- Gaming Day, February 2011, 57 students, course director.

- Boy Scout Computing Merit Badge, January 2011, 49 students, course director.

- 3D Game Festival, December 2010, 50 participants, organizer.

- Girl Scout Badge Workshop, October 2010, 30 students, course director.

- 3D Game Launch, April 2010, 43 participants, organizer.

- High School Web Programming Competition, March 2010, 18 participants, contest director.

- Gaming Day, February 2010, 50 students, course director.

- Boy Scout Computing Merit Badge, January 2010, 47 students, course director.

- 3D Game Festival, December 2009, 50 participants, organizer.

- High School Web Programming Competition, March 2009, 20 participants, contest director.

- Girl Scout Badge Workshop, March 2009, 38 students, course director.

- Gaming Day, February 2009, 57 students, course director.

- Boy Scout Computing Merit Badge, January 2009, 46 students, course director.

- High School Web Programming Competition, March 2008, 30 participants, contest director.

- Girl Scout Badge Workshop, February 2008, 12 students, course director.

- High School Game Programming Workshop, February 2008, 12 students, instructor.

- Gaming Day, February 2008, 63 students, course director.

- Boy Scout Computing Merit Badge, January 2008, 43 students, course director.

- Boy Scout Computing Merit Badge, June 2007, 36 students, course director.

- Girl Scout Badge Workshop, April 2007, 7 students, course director.

- Boy Scout Computing Merit Badge, January 2007, 28 students, course director.