

## 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*

- Certificate 1973

*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

*Professor*

Sept 2017 - Present

- Computer and Information Science Department  
University of Michigan, Dearborn, MI

*Nattu Natarajan Professor of Engineering*

Sept 2017 – Aug 2022

- College of Engineering and Computer Science  
University of Michigan, Dearborn, MI

*Associate Professor*

Jan 1992 – Aug 2017

- Computer and Information Science Department  
University of Michigan, Dearborn, MI

*Chief Technology Officer*

Jan 2008 – May 2011

- Sweet Spot Games Inc.  
Silver Springs, NV

- 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 1980-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 Digital Education Award 2020
- CECS Distinguished Service Award 2019
- University of Michigan Distinguished Faculty Governance Award 2018
- Michigan Association of State Universities Professor of the Year Nominee 2018
- Narasimhamurthi “Nattu” Natarajan Collegiate Professor of Engineering 2017

- |   |      |
|---|------|
| ▪ 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<br>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 Experience Design
- Computer Game Design
- Computer Science Education
- Virtual Worlds
- Social Media
- Knowledge-Based Systems

## **ADMINISTRATIVE SERVICE**

### **University**

- |  |           |
|--|-----------|
| ▪ Representative, Faculty Senate Assembly                | 2020-2023 |
| ▪ Member, Information Technology Committee               | 2021-2022 |
| ▪ Member, Faculty Senate Ad Hoc Rules Revision Committee | 2021      |
| ▪ Member, Regents Bylaw 5.09-5.10 Working Group          | 2019-2020 |

- Member, Information Technology Division General Council 1990-1996

## Campus

- Director, Computer and Information Science Program 1991
- Assistant Director, Computer and Information Science Program 1985-1990
- Chair, Faculty Senate 2017-2020
- Vice Chair, Faculty Senate 2013-2016
- Senator, Faculty Senate 1997-2000, 2008-2011, 2013-2016, 2017-2020
- Chair, Campus Promotion and Tenure Committee 2013-2016
- 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
- Depart Liaison, Teaching and Learning HUB 2021
- Member, Faculty Senate Promotion and Tenure Task Force 2020-2021
- Member, Teacher Scholar Working Group 2019-2020
- Member, Vision 2020 Committee 2016-2018
- Member, Information Technology Council 2018-2020
- Member, Academic Affairs Directors Council 2018-2020
- Member, Undergraduate Curriculum and Degree Committee 1996-1999, 2016-2020
- Member, Provost Advisory Committee 2014-2017
- 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, 2013-2016, 2017-2020
- Member, Student Services Advisory Committee 2002-2006
- Member, Academic Affairs Advisory Committee 1988-1990
- Member, Faculty Grievance Committee 1997-1998, 2008-2011, 2013-2014
- Member, Graduate Board 1997-1998

- Member, Faculty Distinguished Teaching Award Committee 1996-1999, 2016-2017
- Member, Faculty Distinguished Service Award Committee 2019-2021
- Member, Faculty Distinguished Digital Education Award Committee 2019,2021
- 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, 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**

- Chair, ELB Planning Student Collaboration Resource Committee 2016-2020
- Vice Chair, Experiential Learning Committee 2014-2015
- Director, High School Game Programming Competition 2014-2017
- Director, High School Web Design Competition 2008-2013
- Associate Director for Training, Dearborn AI Research Center 2020-present
- Member, Global Challenges Program Committee 2020-present
- Member, CECS Collegewide Core Themes Visioning Committee 2017-2018
- Member, Global Challenges Program Committee 2020-present
- Member, Experiential Learning Honors Program Committee 2016-present
- Member, ELB Planning Steering Committee 2016-present
- Member, CECS Curriculum Committee 2015-2016
- Member, CECS Record Office Director Search Committee 2012
- Member, Computing Technology Committee 1991-1999, 2010-2017
- 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

- Acting Chair, Computer and Information Science Department 2017
- Chair, Accreditation and Assessment Committee 1990-Present
- Chair, Student Organizations, Alumni, and Outreach Committee 2017-2018
- Chair, Equipment Committee 1993-2017
- Chair, Faculty Search Committee 2000-2001
- Chair, Department Chair Evaluation Committee 1996-1997
- Chair, Curriculum Committee 1988-1995, 2001-2010, 2015-2017
- Chair, Mathematics Equipment Committee 1990-1991
- Assessment Coordinator, BS in Software Engineering 2002-present
- Coordinator, Co-op and Experiential Education 2017-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, Bachelor of Science in Software Engineering 2000-present
- Faculty Advisor, Computer Science Honor Society 1990-Present
- Faculty Advisor, Experiential Honors Program 2017-present
- Faculty Advisor, Cooperative Education Program 1990-1998
- Faculty Advisor, Student Chapter of the ACM 1994-1995, 2018-present
- Program Advisor, Graduate Software Engineering Program 1999-2006
- Program Advisor, Minor in Computer and Information Science 1994-Present
- Program Advisor, Undergraduate Software Engineering Program 2000-Present
- Program Advisor, Undergraduate CIS and Mathematics Program 2018-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 1991-1994,2017
- Department Representative, Fall Commencement 2016,2017-2019
- Department Representative, Spring Commencement 1990,1991,1992,2018-2019
- Member, Student Organizations, Alumni, and Outreach Committee 2018-present
- Member, CIS Chair Search Committee 2016-2017,2019-2020
- Member, Curriculum Committee 1988-1998,2017-Present
- Member, Faculty Search Committee 1995, 2002, 2006-2008, 2013, 2017-2020
- 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, International Journal of Multimedia 2015-present
- Member, Editorial Board, Journal of e-Learning 2014-present
- Member, Editorial Board, Journal of Game-Based Learning 2010-present
- Member, Program Committee, Dearborn AI Symposium 2020
- Member, Program Committee, ACM Special Interest Group on  
Computer Science Annual Symposium 2017,2018,2021
- 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, International Conference on  
Mobile, Hybrid, and On-line Learning 2015, 2016
- Member, Program Committee, International Conference on  
Engineering Education 2012,2013, 2014
- Member, Program Committee, IEEE International Conference on  
Teaching Assessment and Learning for Engineering 2018
- Member, Program Committee, Meaningful Play 2008, 2010, 2012, 2014, 2016, 2018
- Member, Program Committee International Conference  
on Computer Supported Education 2009, 2010, 2013-2020
- 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
- Member, Engineering Advisory Board, Grove City College 2011-2016

## **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 496 Design Seminar for Software Engineers (Course Originator)
- CIS 4961 Design Seminar 1 for Software Engineers (Course Originator)
- CIS 4962 Design Seminar 2 for Software Engineers (Course Originator)
- CIS 4971 Design Seminar 1 for Data Scientists (Course Originator)
- CIS 4972 Design Seminar 2 for Data Scientists (Course Originator)



CIS 4981 Design Seminar for Dual Degree CIS-DS 1 (Course Originator)  
 CIS 4982 Design Seminar for Dual Degree CIS-DS 2 (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)  
 CIS 678 Research Advances in Software Engineering  
 Math 105 Precalculus  
 Math 113 Calculus 1 for Business Students  
 Math 114 Calculus 2 for Business Students  
 Math 197 Mathematics Seminar  
 Math 217 Linear Algebra  
 Stat 325 Applied Statistics 1

## HOURLY EMPLOYMENTS

- Northeastern University, Boston, MA* *Jan 2005-Mar 2005*  
 • Review Graduate programs in 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. R. "Socially Distanced Active Learning for Engineering Students", Creative Teaching and Learning Fund, UM-Dearborn, 06/21-04/22, (\$3000, PI).
- Maxim, B. "Undergraduate Research Assistant", Campus Grants, UM-Dearborn, 5/21-8/21, (\$3200, PI).
- Maxim, B. "Grader for Senior Design", Teaching and Learning HUB, UM-Dearborn, 1/21-4/21, (\$1000, PI).
- Maxim, B. R. "Active Learning for Online CIS 375 Students", Creative Teaching and Learning Fund, UM-Dearborn, 06/20-04/21, (\$3000, PI).
- Maxim, B. R. and Callahan, M. "Gamification of Personal Empowerment Process", Creative Teaching and Learning Fund, UM-Dearborn, 11/19-12/20, (\$3000 with \$3000 matching funds, PI).
- Maxim, B. "Undergraduate Research Assistant", Campus Grants, UM-Dearborn, 5/19-8/19, (\$3200, PI).
- Maxim, B.; Kumao, H.; Merrill, C.; and Alvarez, B. "Interrogating the Library: Re-connecting to Collections", MCubed 3.0, University of Michigan, 2/19-12/20, (\$15000, PI).
- Maxim, B. "Nattu Natarajan Collegiate Professor Discretionary Award", CECS, 9/17-8/21, (\$20000, PI).
- Alvarez, B.; Kumao, H.; Maxim, B.; and Merrill, C. "Collect/Connect Game", Library Creative Project Fund, University of Michigan, 1/19-5/19,(\$1125, CoPI).
- Kumao, H.; Maxim, B.; Merrill, C.; and Alvarez, B. "Bookmarks: Speculating the Futures of the Book and Library", School of Art, University of Michigan, 2/19-5/19, (\$6000, CoPI) .
- Maxim, B., Ortiz, L. and Luera, G. "Teaching Artificial Intelligence Using Active Learning, Gamification, and Scaffolding", Henry W. Patton Center for Engineering Education Grant Program, UM-Dearborn, 5/18-6/19, (\$5000, PI).
- Maxim, B. "Undergraduate Research Assistant", Campus Grants, UM-Dearborn, 5/18-

8/18, (\$3000, PI).

- Maxim, B., Ortiz, L. and Luera, G. "Adding Active Learning and Gamification to an Artificial Intelligence Course (CIS 479/579)", Creative Teaching Learning Fund, UM-Dearborn, 5/18-6/21, (\$3000, PI).
- Maxim, B. "Creating a Virtual Model of the New Engineering Laboratory Building", CECS Dean, 1/18-5/18, (\$8000, PI).
- Maxim, B. and Kessentini, M. "A Better Understanding of Software Refactoring by Automated Search and Mining Software Repositories", Henry W. Patton Center for Engineering Education Grant Program, UM-Dearborn, 4/17-12/18, (\$18000, PI).
- Maxim, B. and Brunvand, S. "Adding Active Learning and Gamification to a Software Project Course (CIS 487)", Creative Teaching Learning Fund, UM-Dearborn, 8/17-12/17, (\$1000 with \$1000 matching funds, PI).
- Kessentini, M.; Maxim, B. and Neji, S. "Gamifying and Socializing the Teaching and Learning of Software Engineering", Creative Teaching Learning Fund, UM-Dearborn, 8/17-12/17, (\$3000, CoPI).
- Maxim, B. and Brunvand, S. "Use of Role-play and Gamification in a Software Project Course (CIS 488)", Creative Teaching Learning Fund, UM-Dearborn, 1/17-4/17, (\$960 with \$960 matching funds, PI).
- Lindquist, M.; Maxim, B.; Proctor, J.; and Dolins, F. "Improving environmental decision-making through multisensory simulation: The contribution of sound to 3D landscape visualization perception", MCubed, University of Michigan, 5/16-12/17, (\$60000, CoPI).
- Dehzangi, O. and Maxim, B. "Designing a Real-Time Driver Authentication System: Gait Pattern Recognition via Wearable Motion Sensors", Office of Sponsored Research, UM-Dearborn, 5/16-5/17, (\$14800, CoPI).
- Maxim, B.; Kessentini, M.; Brunvand, S.; and Acharya, S. "Transforming a lecture heavy course (CIS 375) into mini-learning workshops", Advanced Teaching and Learning Fund, UM-Dearborn, 3/16-12/17, (\$3000 with \$3000 matching funds, PI).
- Kessentini, M.; Maxim, B.; and Brunvand, S. "On the Use of Emotional and Social Factors to Improve Students Success and Retention Rate", Advanced Teaching and Learning Fund, UM-Dearborn, 3/16-12/16, (\$2500 CoPI).
- Kessentini, M. and Maxim, B. "Computer Science Curricula and Technologies for Blind and Visually Impaired Students", Henry W. Patton Center for Engineering Education Grant Program, UM-Dearborn, 2/16-12/16, (\$5000, CoPI).
- Merrill, C.; Kumao, H.; Alvarez, B.; and Maxim, B. "Automaton in the Collection: An Interactive Library Game", MCubed, University of Michigan, 10/15-12/17, (\$60000, CoPI).
- 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 matching funds, 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 CECS 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 CECS 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**

- Maxim, B. R. and Callahan, M. "Gamification of Personal Empowerment Process", Ford Motor Company Fund, 9/19-12/20, (\$5,000 PI).
- Lemos, M., Lindquist, M.; Campbell-Arvai; V. and Maxim, B. "Evaluating Ecosystem Service Tradeoffs in the Design, Planning & Management of Urban Forests: Synthesizing SDM, Scenario Planning and Landscape Visualization", McIntire-Stennis Cooperative Forestry Research Program, 8/17-9/21, (\$350,859 with \$56,000 matching, Collaborator).
- Maxim, B. R. "Development of a Software Engineering Process Improvement Game", Association of Computing Machinery Special Interest Group on Computer Science Education, 1/16 – 12/16, (\$3,200 PI).
- Cristiano, J. and Maxim, B. "Campus of Hope: Using the Virtual World to Improve Our World," Ford College Community Challenge, 9/08-6/18 (\$100,000 with \$45,000 matching, PI)
- 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. "Preliminary 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. "2012 BlackBerry Education Partner", ten BlackBerry Torch Cell Phones, five 16GB Playbooks, three 32GB Playbooks, (Hardware - estimated market value \$9300 PI).
- Maxim, B. and Modesitt, K. "1999 Microsoft Laboratory Software Licenses", Microsoft Corporation, (Software - estimated market value \$50,000 PI).
- Maxim, B. and Modesitt, K. "1998 Microsoft Visual Development Studio Lab Grant", Microsoft Corporation (Software - estimated market value \$4,000 PI).
- Maxim, B. and Modesitt, K. "July 1997 Microsoft Developer Curriculum Project", Microsoft Corporation (Software - estimated market value \$99,300 PI).
- Maxim, B. and Modesitt, K. "March 1997 Microsoft Developer Curriculum Project", Microsoft Corporation (Software - estimated market value \$68,500 PI).



- Maxim, B. and Modesitt, K. "July 1996 Microsoft Developer Curriculum Project", Microsoft Corporation (Software - estimated market value \$58,500 PI).
- Maxim, B. and Modesitt, K. "1995 Oracle Educational Partner", Oracle Corporation, (Software - estimated market value \$1,200,000 PI).

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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.

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

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- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Mathematics: Exploring Polynomials Using Synthetic Division." *Michigan Association for Computer Users in Learning Newsletter* 9 (5): 24-25.
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- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Mathematics: Maxima and Minima Problems II." *Michigan Association for Computer Users in Learning Newsletter* 9 (3): 14-15.
- Maxim, B. R.; Bachelis, G. F.; James, D. A.; and Stout, Q. F. "Making Parallel Sorting Algorithms Come Alive." *Michigan Association for Computer Users in Learning Newsletter* 9 (2): 20-21.
- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Mathematics: Maxima and Minima Problems." *Michigan Association for Computer Users in Learning Newsletter* 9 (2): 8-9.
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- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Mathematics: The Compounding of Interest." *Michigan Association for Computer Users in Learning Newsletter* 8 (6): 16-17.
- Maxim, B. R. and Verhey, R. F. "Spreadsheets in Secondary Mathematics: Recursive Algorithms." *Michigan Association for Computer Users in Learning Newsletter* 8 (4): 17.
- Maxim, B. R. and Verhey, R. F. "Spreadsheets in Secondary Mathematics: A Journey in Time." *Michigan Association for Computer Users in Learning Newsletter* 8 (3): 9.
- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Mathematics: When is a Game Fair?" *Michigan Association for Computer Users in Learning Newsletter* 8 (2): 9.
- Maxim, B. R. and Verhey, R. F. "Spreadsheets in Secondary Mathematics: Choosing the Best Average." *Michigan Association for Computer Users in Learning Newsletter* 8 (1): 5.
- Verhey, R. F. and Maxim, B. R. "Spreadsheets in Secondary Education: The Gamblers' Ruin Problem." *Michigan Association for Computer Users in Learning Newsletter* 6 (17): 8-9.
- Maxim, B. R. and Verhey, R. F. "Spreadsheets in Secondary Education: Linear and Non-linear Difference Equations." *Michigan Association for Computer Users in Learning Newsletter* 6 (16): 7.

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### **Editor Reviewed Web Sites**

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Maxim, B. R. and Pressman, R. S. "Multimedia Software Engineering Resources", (web site) *Software Engineering: A Practitioner's Approach* (7<sup>th</sup> Edition), McGraw-Hill, 2008.

Maxim, B. R. and Pressman, R. S. "Multimedia Software Engineering Resources", (web site) *Software Engineering: A Practitioner's Approach* (6<sup>th</sup> Edition), McGraw-Hill, A, 2004.

Maxim, B. R. and Kamin, N. "Lecture and Laboratory Resources" (web site), *Introduction to Computer Science Using Java* (2nd Edition), McGraw-Hill, 2002.

Maxim, B. R. and Pressman, R. S. "Multimedia Software Engineering Resources", *Software Engineering: A Practitioner's Approach* (5<sup>th</sup> Edition), McGraw-Hill, August, 2000.

Maxim, B. R. (on-line course) "Programming Languages", *University of Texas-Austin World Lecture Hall* January, 2000.

Maxim, B. R. (on-line course) "Software Quality Assurance", *University of Texas-Austin World Lecture Hall*, January, 2000.

Maxim, B. R. (on-line course) "Artificial Intelligence", *University of Texas-Austin World Lecture Hall* August, 1999.

Maxim, B. R. (on-line course) "Data Structures and Algorithm Analysis", *University of Texas-Austin World Lecture Hall* August, 1999.

Maxim, B. R. (on-line course) "Design Seminar", *University of Texas-Austin World Lecture Hall* August, 1999.

Maxim, B. R. (on-line course) "Introduction to Software Engineering", *University of Texas-Austin World Lecture Hall* August, 1999.

Maxim, B. R. (on-line course) "Software User Interface Design and Analysis", *University of Texas-Austin World Lecture Hall* October, 1999.

### **ABSTRACTS, PRESENTATIONS, AND REVIEWS**

Maxim, B.R.; "Engaging Online Engineering Students", CECS Teaching Workshop, University of Michigan-Dearborn, February 2021.

- Maxim, B. R., invited blog, "Engaging Students in an Online World", Thinkspace, University of Michigan-Dearborn, February 2020.
- Anderson, P. F. and Maxim, B. R. "Ab Errantry: Developing a Videogame Around Online Safety Skills for those At Risk", poster, *Medical Library Association Annual Meeting (MLA19)*, Chicago, IL, May 2019.
- Maxim, B. R., talk, "User Experience Design", University of Michigan, Spring Open House, Dearborn, MI, April, 2019.
- Kumao, H.; Maxim, B.; Merrill, C.; and Alvarez, B., exhibit, "Collect Connect Game", Shapiro Library, University of Michigan, March-May, 2019.
- Maxim, B. R.; Yackley, J. J.; and Anderson, P. F., exhibit, "GAME Lab Demos", Meaningful Play 2018 Conference, East Lansing, MI, October, 2018.
- Maxim, B. R., poster, "Senior Design Projects in Detroit", University of Michigan, um3detroit – University of Michigan and Detroit, Dearborn, MI, May, 2018.
- Maxim, B. R., talk, "User Experience Design", University of Michigan, Spring Open House, Dearborn, MI, April, 2018.
- Maxim, B. R., talk, "Undergraduate Research Opportunities", University of Michigan, Professional Opportunities for Women in Engineering and Research, Dearborn, MI, March, 2018.
- Maxim, B. R., talk, "MCubed Lessons Learned", University of Michigan, MCubed Research Day, Dearborn, MI, March, 2018.
- Maxim, B. R., talk, "An online conversation with Dearborn's G.A.M.E. Lab founder", Cool Toys Seminar, University of Michigan, Ann Arbor, MI, February, 2018.
- Maxim, B. R., talk, "Gaming Day as Community Outreach", University of Michigan, Campus Community Engagement Day, Dearborn, MI, January, 2018.
- Lindquist, M.; Maxim, B.; Proctor, J.; and Dolins, F., poster, "Improving environmental decision-making through multisensory simulation: The contribution of sound to 3D landscape visualization perception", MCubed Symposium, University of Michigan, Ann Arbor, November, 2017.
- Merrill, C.; Kumao, H.; Alvarez, B.; and Maxim, B., poster, "Automaton in the Collection: An Interactive Library Game", MCubed Symposium, University of Michigan, November, 2017.
- Maxim, B. R., talk, "User Experience Design and Game Design", University of Michigan, Spring Open House, Dearborn, MI, April, 2017.
- Maxim, B. R., talk, "CIS Capstone Design and Service Learning", University of Michigan, Campus Community Engagement Day, Dearborn, MI, January, 2017.
- Maxim, B. R., invited talk, "Introducing Active Learning in Software Engineering Courses",

- Robert Morris University, 2016 Verification and Validation Workshop, Pittsburgh, PA, August, 2016.
- Maxim, B. R., talk, "Software Engineering, User Experience Design, and Game Design", University of Michigan, Spring Open House, Dearborn, MI, April, 2016.
- Maxim, B. R., panel discussion, "Strategies to Create Effective Teams", University of Michigan, HUB for Teaching Learning, Dearborn, MI, February, 2016.
- Maxim, B. R., talk, "CIS Capstone Design and Service Learning", University of Michigan, Campus Community Engagement Day, Dearborn, MI, January, 2016.
- Maxim, B. R., talk, "User Experience Design and Virtual Worlds", Association of College & Research Libraries Virtual Worlds Interest Group, Second Life, October, 2015.
- Maxim, B. R., panel discussion, "Publishing for Books", University of Michigan, Integrated Learning Open House, Dearborn, MI, April, 2015.
- Maxim, B. R., talk, "Software Engineering and Game Design", University of Michigan, Spring Open House, Dearborn, MI, April, 2015.
- Maxim, B. R., talk, "CIS Capstone Design and Service Learning", University of Michigan, Campus Community Engagement Day, Dearborn, MI, January, 2015.
- Maxim, B. R., talk, "Creating Computer Games", *Gullo Gullo*, UM-Dearborn, May, 2014.
- Maxim, B. R., panel discussion, "Upper Division Culminating Experiences", University of Michigan, HUB for Teaching Learning, Dearborn, MI, March 2014.
- Maxim, B. R., talk, "CIS Capstone Design Experiences", University of Michigan, Integrated Learning Open House, Dearborn, MI, February, 2014.
- Maxim, B. R., talk, "Creating Computer Games", *Gullo Gullo*, UM-Dearborn, May, 2013.
- Maxim, B. R. (Review) Computer game programming manuscript, CRC Press, May 2012.
- Maxim, B. R.; Turton, M.; and Nahle, W., talk, "Using Social Media to Teach Engineering Process", *Enriching Scholarship 2012 Teaching and Technology Collaborative*, University of Michigan, Ann Arbor, MI, May, 2012.
- Maxim, B. and Akingbehin, K., poster, "Service Learning: Software Engineering Senior Design Projects", *Community Partnerships Invested in Michigan's Future*, Michigan State Capitol, Lansing, Michigan, March, 2012.
- Maxim, B. R., talk, "Using Second Inventory to Back Up Assets", *Second Life University of Michigan Brown Bag*, Second Life, May 2010.
- Maxim, B. R., talk, "Virtual Worlds and Service Learning", *Virtual Worlds Best Practices in Education 2010*, Second Life, March 2010.
- Maxim, B. R., discussion leader, "Urban Farming Systems: Public and Personal Health", *Urban*

*Farming Summit*, UM-Dearborn, February 2010.

Maxim, B. R. and Anderson, P. F., talk, "Using Linden Scripting Language to Teach Programming", *CS4HS Summer Workshop for High School Teachers*, University of Michigan, Computer Science and Engineering, Ann Arbor, August 2009.

Maxim, B. R. and Martineau, N., poster, "Learning via Gaming – an Immersive Environment for Teaching Kids", *2009 Game Developers Conference*, San Francisco, California, March 2009.

Maxim, B. R. and Cristiano, J., talk, "Using the Virtual World to Improve Our World," *Conference offered by University of Michigan-Dearborn*, June 2009.

Maxim, B. R. and Martineau, N., talk, "Learning via Gaming – an Immersive Environment for Teaching Kids", *2009 Enriching Scholarship Conference*, Ann Arbor, Michigan, May 2009.

Maxim, B. R., talk, "UM Dearborn College of Engineering And Computer Science Presence in Second Life", *Wolverine Island Kick-off*, University of Michigan, Ann Arbor, Michigan, October 2008.

Maxim, B. R., talk "Using Second Life to Support Distance Learning", UM-Dearborn Professional Education Center, May 2008.

Maxim, B. R. (Review) International Game Developers Association Curriculum Framework, December 2007.

Maxim, B. R.; Callery, K.; Winn, B.; and Ridgway, B. panel, "Game Design Education in Michigan", International Game Developers Association Detroit Chapter, October 2007.

Maxim, B. R. (Review) Computing ethics manuscript, Pearson Education, June 2007.

Maxim, B. R.; Grosky, W.; and Baugh, J., talk, "Introducing Information Technology Through Game Design", *Michigan Association of Computer Users in Learning Annual Conference*, Detroit, MI, March 2007.

Maxim, B. R.; Grosky, W.; and Baugh, J., talk, "Educating Home Ludens: Introducing Information Technology Through Game Design", *37th Technical Symposium of the Association For Computing Machinery, Special Interest Group on Computer Science Education*, Covington, KY, March 2007.

Maxim, B. R., discussion leader, "The Role of Interdisciplinary Courses in Game Development Programs", *Game Developers Conference*, March 2007.

Maxim, B. R., talk, "The Role of Art in Game Design", Northville HS, January 2007.

Maxim, B. R. (Review) Object-Oriented software engineering manuscript, January 2007.

Maxim, B. R. (Review) Game design book proposal, December 2006.

Maxim, B. R. (Review) Programming languages book proposal, Pearson Education, April 2006.

- Maxim, B. R. (Review) 3D Game programming book proposal, Thomson Publishing, January 2006.
- Maxim, B. R. (Review) Game programming book proposal, Thomson Publishing, December 2006.
- Maxim, B.R., talk, "Game Design is More Than Programming", IEEE Southeastern Michigan Fall Meeting, Dearborn, MI, October 2006.
- Maxim, B.R. talk, "Game Development Tools", Livonia Technology Center, October 2006.
- Maxim, B. R. (Review) Programming languages book proposal, Pearson Education, April 2006.
- Maxim, B. R. (Review) 3D Game programming book proposal, Thomson Publishing, January 2006.
- Maxim, B. R. (Review) Game programming book proposal, Thomson Publishing, December 2006
- Maxim, B. (Review) computing ethics manuscript proposal, Jones and Bartlett, May 2005.
- Maxim, B. (Review) Software Engineering manuscript, NIIT, January 2005.
- Maxim, B. (Review) Graduate programs in Computer Systems Engineering and Information Systems. North Eastern University, January, 2005.
- Maxim, B. R., talk, "Computer Game Physics and AI", Albion College, April 2004.
- Maxim, B. R. (Review) Computational intelligence manuscript, Pearson Education, April 2004.
- Maxim, B., (Review) National Science Foundation Grant Application, March 2004.
- Maxim, B. R. (Review) Artificial intelligence manuscript, Pearson Education, November 2003.
- Maxim, B. R. (Review) User interface design manuscript, Pearson Education, August, 2003.
- Maxim, B. R. (Review) User interface design manuscript, Pearson Education, March, 2003.
- Maxim, B. R. (Review) Object-oriented software Engineering manuscript, Prentice-Hall, December, 2002.
- Maxim, B. R. (Review) User interface design manuscript, Wiley Publishing Company, December, 2002.
- Maxim, B. R. (Review) Game physics manuscript, Morgan- Kaufman Publishing Company, December, 2002.
- Maxim, B. R. (Review) Project management manuscript, Addison-Wesley Longman Publishing Company, October, 2002.
- Maxim, B. R. (Review) Computing ethics manuscript, Prentice-Hall Publishing Company, December, 2001.
- Maxim, B. R. (Review) Two manuscripts for the 7<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education, sponsored by the Association of Computing Machinery, Special Interest Group on Computer Science Education, October, 2001.



- Maxim, B. R. and Akingbehin, K., talk, "Advancing the State of the Art in Web-Based Information Systems", *2001 North Central Regional Meeting of the American Society of Engineering Education*, Cleveland, OH, April, 2001.
- Maxim, B. R. (Review) Software engineering manuscript, Addison-Wesley Longman Publishing Company, March, 2001.
- Lauckner, K. F.; Maxim, B. R.; and Wilson, C. W., talk, "Computer Fluency and the National Academies Report", *Seventh Annual Consortium for Computing in Small Colleges: Midwest Conference*, Valparaiso University, Valparaiso, Indiana, October, 2000.
- Maxim, B. R. (Review) Software engineering manuscript, Addison-Wesley Longman Publishing Company, November, 2000.
- Maxim, B. R. (Review) Programming languages manuscript, Scott/Jones Publishing Company, October, 2000.
- Maxim, B. R. (Review) Manuscript for *Information & Software Technology*, July, 2000.
- Maxim, B. R. "Computer Game Design", invited talk, Lawrence Technological University, Southfield, Michigan, April, 2000.
- Maxim, B. R. (Review) Manuscript for *Computers and Education*, September, 1999.
- Maxim, B. R. (Review) Data Structures manuscript, Scott/Jones, July, 1999.
- Maxim, B. R. Contributing reviewer to *Recommended Reading for C++ Programmers* published by Addison-Wesley Longman, 1998.
- Maxim, B. R. (Review) Programming languages manuscript, Addison-Wesley Longman Publishing Company, February, 1998.
- Maxim, B. R. (Review) C++ programming manuscript, Addison-Wesley Longman Publishing Company, December, 1997.
- Maxim, B. R. (Review) Data structures manuscript, Morgan- Kaufman Publishing Company, April, 1997.
- Maxim, B. R. (Review) Software engineering manuscript, Franklin-Beedle Publishing Company, November, 1996.
- Maxim, B. R. (Review) Compared two software engineering texts, Addison-Wesley Publishing Company, April 1996.
- Maxim, B. R. (Review) Data structures manuscript, Prentice-Hall Publishing Company, March, 1996.
- Maxim, B. R. (Review) Object-oriented C++ manuscript, Irwin Publishing Company, February, 1996.
- Maxim, B. R. (Review) Data structures text manuscript, Prentice-Hall Publishing Company, November, 1995.

- Akingbehin, K. and Maxim, B. R., talk, "On the Integration of Computer Ethics into Computing Curricula", *1994 American Society for Engineering Education North Central Section Annual Conference*, Grand Rapids, MI, April, 1994.
- Maxim, B. R. (Review) Programming Languages manuscript, PWS Kent Publishing Company, June, 1994.
- Akingbehin, K.; Maxim, B. R.; and Tsui, L., talk, "A Recommendation for a Capstone Design with a Computer Systems Focus." *Conference presentation at the 1993 American Society for Engineering Education North Central Section Annual Conference*, Pittsburgh, PA, April, 1993.
- Akingbehin, K.; Maxim, B. R.; and Tsui, L., talk, "A Capstone Design Course Based on Computing Curricula 1991", *1993 American Society for Engineering Education North Central Section Annual Conference*, Pittsburgh, PA, April, 1993.
- Maxim, B. R., talk, "Software Engineering is not Just Programming", *17th Annual Meeting of the Michigan Association of Computer Users in Learning*, Detroit, MI, March, 1993.
- Maxim, B. R., in-service seminar, "Teaching Secondary School Mathematics Using Spreadsheets", Farmington Public Schools, Farmington, MI, April, 1991.
- Maxim, B. R., Talk. "An Introduction to Object-Oriented Programming." Conference presentation at the 15<sup>th</sup> annual meeting of the Michigan Association of Computer Users in Learning, Detroit, MI, March, 1991.
- Maxim, B. R. and Verhey, R. F., talk, "The Role of Spreadsheet Technology in the Teaching of Mathematics", The University of Michigan, School of Education, Ann Arbor, MI, February, 1991.
- Maxim, B. R.; Bachelis, G. F.; James, D. A.; and Stout, Q. F., talk, "Bringing Computing Algorithms to Life", *50th Annual Conference of the Detroit Area Council of Teachers of Mathematics*, Troy, MI, October, 1990.
- Maxim, B. R. (Review) Introductory computer science manuscript, Wadsworth Publishing Company, July, 1990.
- 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*", 11<sup>th</sup> 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", 11<sup>th</sup> 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", 18<sup>th</sup> 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", 46<sup>th</sup> 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", 28<sup>th</sup> 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", 28<sup>th</sup> Annual Meeting of the American Educational Research Association, San Francisco, CA, April, 1986.
- Maxim, B. R., talk, "Teaching Data Structures", 10<sup>th</sup> 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", 10<sup>th</sup> 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., (Abstract), "Development of a Laboratory Based Pre-Calculus Course", The Proceedings of the 6<sup>th</sup> 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", *26<sup>th</sup> 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", *26<sup>th</sup> 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", *26<sup>th</sup> 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 Porotype (?)", *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 Measurement in 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", *24<sup>th</sup> 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., talk, "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**

Abid, C. "Early Prediction of Quality of Service Using Interface-level and Code-level Metrics, and Antipatterns", PhD Dissertation (Co-Advisor – Candidate Fall 2019)

Almhana, R. "Intelligent Software Bugs Localization, Triage and Prioritization", PhD Dissertation (Committee Member – Candidate Fall 2019).

Rebai, S. "Web Service Design Defects Detection: A Bi-Level Multi-Objective Approach", PhD Dissertation (Committee Member – Candidate Fall 2019)

- Yackley, J. "Simultaneous Refactoring and Regression Testing: A Multi-Task Approach", PhD Dissertation (Co-Advisor – Candidate Winter 2019)
- Alizadeh, V. "A User-aware Intelligent Refactoring for Discrete and Continuous Software Integration", PhD Dissertation (Committee Member – completed April 2020).
- Rashid, J., "Topic Modeling for Text Mining and Information Retrieval Through Machine Learning", PhD Dissertation, University of Engineering & Technology, Taxila, (External Reviewer – completed September 2019).
- Alhazi, B. "Information Systems Migration as an Optimization Problem: Case Studies on Refactoring Model Transformations", PhD Dissertation (Committee Member – completed June 2019).
- Wang, H., "An Automated Refactoring Framework for Web Services", (Committee Member – Completed December 2017).
- Dea, T., "Interactive Search-based Software Engineering Using Machine Learning and Computational Search: Case Studies on Software Maintenance and Evolution", (Committee Member – Completed July 2017).
- Haider, K., "Intelligent Gender Identification Using Diverse Facial Features in Different Conditions", PhD Dissertation, University of Engineering & Technology, Taxila, (External Reviewer – completed July 2017).
- Maqsood, M., "Quranic Recitation Pronunciation Modeling and Analysis", PhD Dissertation, University of Engineering & Technology, Taxila, (External Reviewer – completed April 2017).
- Javed, A., "Event Driven Video Summarization for Sports", PhD Dissertation, University of Engineering & Technology, Taxila, (External Reviewer – Completed November 2016).
- Mansoor, U., "Detection, Merging, and Recommendation of High-Level Changes Using Multi-Objective Optimization", PhD Dissertation, (Committee Member – Completed November 2016).
- Sahin, D., "Search-Based Software Refactoring: A Multi-Level Framework", PhD Dissertation, (Committee Member – Completed October 2016)
- Mkaouer, M., "Balancing Competing Needs of Machine and Human in Search-Based Software Engineering", PhD Dissertation, Computer and Information Science Department, University of Michigan, Dearborn. (Committee Member - Completed April 2016).
- Petrenko, M. "Managing Program Dependencies in Software Evolution", PhD Dissertation, Wayne State University, (Committee Member - Completed October 2009).
- Fife, B. "Students' Concept Patterns Revealed by Computer Analysis of Language-Constrained Science Concept Maps", EdD Dissertation, Educational Technology Program, University of Michigan, Ann Arbor. (Committee Member - 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).
- Necovski, J., "Game Creation Environment", (Advisor – expected completion December 2021).
- Hamad, A. "Two Wheelistic: Development of a High-Fidelity Virtual Reality Simulator of Transportation Safety Research", Master's Thesis, (MS Committee Member – completed April 2021).
- Niewiadomski, L. "Incorporating Model-Based User Requirements in Product Development", Master's Thesis, (MS Advisor - Completed April 2021).
- Sagherian, A. "Understanding Learning Progressions via Automatic Scoring of Visual Models", Master's Thesis, (MS Committee Member – completed April 2020).
- Ganesan, G. "An Empirical Study of the Correlation Between Code Smells and Software Bugs", Master's Thesis, (MS Committee Member – completed December 2018).
- Skaf, H., "Dimensionality Reduction of Quality Objectives for Web Services Modularization", Master's Thesis (MS Committee Member – completed May 2018).
- Rajendra, V. "Characterization and identification of distraction during naturalistic driving using wearable a non-intrusive physiological measure of Galvanic Skin Responses", Master's Thesis (MS Committee Member – completed March 2018).
- Wang, B. "An Empirical Evaluation of Algorithms for Computing Equilibria in Games for Approximate Inference in Large Dimensional Probabilistic Graphical Models", (Committee Member - completed November 2017).
- Melville, A. "An Automatic System for Characterization and Detection of Ocular Noise", (Committee Member - completed April 2017).
- Hassouna, T. "Detection of Web Service Refactoring Opportunities by Example", Master's Thesis, (Committee Member – completed December 2016).
- Tama, N. "Scheduling of Refactoring Opportunities Using Computational Search", Master's Thesis, (Committee Member – completed December 2016).
- Shahzadi, S., December 2016, "Unified Agile Testing Framework for Mobile Applications", University of Engineering & Technology Taxila, Master's Thesis, (Co-Adviser – completed August 2016).

- Weiss, B., "Examining the Relationship Between Age and Instrument Cluster Design Preference", IMSE UMD, Master's Thesis, (Committee Member – Completed August 2016).
- Nemala, V., "Model Transformation Testing: A Bi-level Search-Based Software Engineering Approach", Master's Thesis, (Committee Member – completed April 2015).
- Boyina, R., "On the Use of Quality Attributes for Software Refactoring, Master's Thesis, (Committee Member – completed December 2014).
- Namburu, S., November 2014, "Detection of High-level Model Changes as a Multi-Objective Optimization Problem, Master's Thesis, (Committee Member – completed November 2014).
- Alnofal, M. "Model Merging as a Multi-Objective Problems", CIS UMD, Master's Thesis, (Committee Member - Completed January 2014).
- Varadajan, A. "Design and Implementation of an Efficient Learning Tool for Pen Based Devices", Master's Thesis (Committee Member - completed May 2006).
- Lamba, A. "Design of Corporate Networks", Master's Thesis Chair, (Candidate, 2002).
- Crossman, J. "Advanced Signal-Based Diagnostics for Vehicle Fault Detection", Master's Thesis, (Committee Member - completed August 2000).
- Skene, T. "Volunteers United", CIS 695 Chair, (expected completion August 2021).
- El-Haik, A. "Autonomous Vehicle Simulator", CIS 695 Chair, (expected completion May 2021).
- Hobby, M. J. "Henchman: A Career in Minor Villainy", CIS 695 Chair, Winter 2021.
- Leu, C. J. "Remind Me: Inventory and Event Reminder Web App", CIS 695 Chair, Winter 2021.
- Lorenzetti, C. "Get Up to Code!", CIS 695 Chair, Winter 2021.
- Roy, S. "Fake News Detection Using Machine Learning Algorithms", CIS 695 Chair, Winter 2021.
- Shakir, A. "Alien Invasion", CIS 695 Chair, Summer 2020.
- Cotter, J. "Virtual Automotive Controls Feature Simulation", CIS 695 Chair, Winter 2020.
- Dashti, A. "Dead by Dying Light", CIS 695 Chair, Winter 2020.
- Bhamidipati, S. "Effects of Twitter on Stock Market", CIS 695 Chair, Fall 2019.

- Gayton, C. "Sector 12 Survival", CIS 695 Chair, Fall 2019.
- Majid, S. "Amazon TV Game", CIS 695 Chair, Fall 2019.
- Alhaidar, M. "LightUp Mobile Game", CIS 695 Chair, Fall 2018.
- Balakrishna, D. "Location-based Insurance Compliant Personal Healthcare Assistant", CIS 695, Fall 2018, (K. Akingbehin, chair).
- Tanaka, M. "TCP vs UPP for Gaming Network", CIS 695 Chair, Summer 2018.
- Houren, S. "Dr. Mortimer's Motel of Terror", CIS 695 Chair, Winter 2018.
- Meyers, A. "Developing AI for 2d side-scroller", CIS 695 Chair, Winter 2018.
- Sisk, J. "User Experience Design for 2d side-scroller", CIS 695 Chair, Winter 2018.
- Nasser, H. "Color Trouble", CIS 695 Chair, Fall 2017, (K. Akingbehin, chair).
- York, P. "A Method of Visualizing Four Dimensional Objects", CIS 695 Chair, Summer 2017.
- Kaur, R. "Testing Using Cyara Automated Testing Tool", CIS 695, Winter 2017, (K. Akingbehin, chair).
- Kodali, S., "Food Finder: Calorie-Driven Customized Food Ordering System, CIS 695, Winter 2017, (K. Akingbehin, chair).
- Mullins, N. "A/B Testing of the Process Improvement Game", CIS 695 Chair, Winter 2017.
- Randhawa, R. "Reconfigurable Online Retail Store", CIS 695, Winter 2017, (K. Akingbehin, chair).
- Klanderma, J., "3D Virtual Reality Framework for Mobile Devices", CIS 695 Chair, Summer 2016.
- Sandoval, F., "Unreal 4 to Embedded System Blueprint", CIS 695 Chair, Winter 2016.
- Smith, E., "Moon Fright", CIS 695 Chair, Winter 2016.
- Palmer, N., "Worldtrak Contract Manager", CIS 695 Chair, Fall 2015.
- 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.
- Krauss, 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 – Electronic 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.

Burrows, T. "Fast Draw Timer", CIS 695 Chair, Summer 2001.

Hayton, S. "Artificial Intelligence in Abalone", CIS 695 Chair, Summer 2001.

Abdulla, A., Anani, A., Kessey, N. and Hoshowski, E. "gigBuddy", CIS 4952/4962, Winter 2021, (Client: Michelle Maltese).

Abdullah, M., Ahmed, Z., Alhaidar, M., and Longworth, K "BeeHive", CIS 4952/4962, Winter 2021, (Client: Srinivas Simhan).

Ahmed, N., Alrubaiee, A., Calado, A. and Diamantis, A. "Collect Connect", CIS 4952/4962, Winter 2021, (Client: Christi Merrill).

Al-Bahri, A., Al-Kharusi, H., Badran, K., and Saleh, I. "Waisons Realty Website", CIS 4952/4962, Winter 2021, (Client: Ibrahim Sharif).

Algabri, M., Fariha, F., Hacham, M. and Johnson, D. "Mainbids Expo", CIS 4952/4962, Winter 2021, (Client: Ibrahim Sharif).

Ayres, J., Hogan, J., Richway, J., and Rosati, A. "Driving Simulator", CIS 4952/4962, Winter 2021, (Client: AAA).

Bass, W., Hoffman, C., McLaughlin, C., and Johnson, H. "Relish Android App", CIS 4952/4962, Winter 2021, (Client: Daniel Kastner).

Bazzi, K., Ibrahim, S., Roberge, N., and Yassine, A. "North Star Reach App", CIS 4952/4962, Winter 2021, (Client: Patrick Smith).

Cuykendall, N., Johanningsmeier, A., Trela, T., and Reed, R. "PrintApart", CIS 4952/4962, Winter 2021, (Client: Srinivas Simhan).

Davis, A., Durham, A., Marimpietri, J., and Myers, J. "Scratch", CIS 4952/4962, Winter 2021, (Client: Romelo Daher).

Domol, N., Seidl, A., Steltz, B., and Mills, J. "DocuStip", CIS 4952/4962, Winter 2021, (Client: Michael Aufmuth).

Higgins, R., Kenney, A., Siddiqui, I., and Trivedi, S. "Think Mobile", CIS 4952/4962, Winter 2021, (Client: Think Portal).

McDonough, C., Peters, K., Rabbi, Q., and Sarmiento, S. "Oven Blaze App", CIS 4952/4962, Winter 2021, (Client: Amed Sharif).

Albadry, F., Harris, M., and Naidas, D. "Dorm Norm", CIS 4952/4962, Fall 2020, (Client: Porsha Bursey).

Alkatib, S., Hourani, H., Rabie, J., and Thiagarajah, R. "Deal A Meal", CIS 4952/4962, Fall 2020, (Client: Carl Goran).

Altabi, S., Faulkner, D., Hampton, A., and Lam, K. "ZaxTax Database", CIS 4952/4962, Fall 2020, (Client: ZaxTax).

Al-Qabtan, A., Hall, E., Moyer, N., and Vijaykumar, G. "Spymaster", CIS 4952/4962, Fall 2020, (Client: Carl Goran).

Gasparovich, A., Mallare, N., Naimi, N. and Salam, S. "Fantasy Sports Notifications", CIS 4952/4962, Fall 2020, (Client: Marco Gatti).

Lynch, G., Miah, S., Patel, N. and Syed, T. "Even Steven", CIS 4952/4962, Fall 2020, (Client: Susy Solis).

Moore, L., Narayanan, M., Patel, K. and Omar, O. "CoverFanz", CIS 4952/4962, Fall 2020, (Client: Michelle Maltese).

Ahmad, S., Bonev, H., Howard, C. and Taylor, J. "Mainbids App", CIS 4952/4962, Summer

2020, (Client: Ibrahim Sharif).

Azam, A., Nassar, N., and Virk, A. "Oven Blaze App", CIS 4952/4962, Summer 2020, (Client: Amed Sharif).

Azzopardi, J., Batchelor, B., Estrope, J., and Mona, S. "Cosmic Combat: Clash of Odysseys", CIS 4952/4962, Summer 2020, (Client: Carl Goran)

Bate, B., Curylo, E., Kelly, K., and Pierson, M. "Life Coach", CIS 4952/4962, Summer 2020, (Client: Carl Goran).

Darwiche, M., Hampshire, I., and Tomlin, J. "Bank of Dad", CIS 4952/4962, Summer 2020, (Client: Treon Kranz).

Das, C., Dettloff, C., Smith, C., and Vanhooser, S. "E-Commerce Conversion Predictor", CIS 4952/4962, Summer 2020, (Client: Steve Hana).

Dudley, J., El-Majzoub, M., and Heisling, N. "LinkUBank", CIS 4952/4962, Summer 2020, (Client: Keith Holingshed).

Fielder, J., McInnes, J., Satandelo, D., and Wadhwa, S., "PushPoint", CIS 4952/4962, Summer 2020, (Client: Urban Science).

Josebalen, C., Nill, C., Reeves-Carson, S., and Westfall, D. "Speak IQ", CIS 4952/4962, Summer 2020, (Client: Susy Solis).

Klaus, R., Patel, M., and MacFadyen, A. "Michigan Local Government Data Parser", CIS 4952/4962, Summer 2020, (Client: Stephanie Leiser and Nicholas Brousseau).

Abu-kwaik, H., Bhatt, R., El-loh, K., and Joshi, A. "Accomp List", CIS 4952/4962, Winter 2020, (Client: Jen Romanowski).

Abraham, M., Cofield, A., Narsighia, J., and Obi, E. "UI Generator", CIS 4952/4962, Winter 2020, (Client: Urban Science).

Achtman, M., Cazares, A., Ciolek, C., and Spencer, N. "Ford Registration System", CIS 4952/4962, Winter 2020, (Client: Ford Motor).

Ajerd, O., Georgic, J., Hawari, A., and Oouda, O. "Ergent App", CIS 4952/4962, Winter 2020, (Client: Isaac Adams).

Alsafi, Z., Kozan, C., and Navarre, A. "Data Gamification", CIS 4952/4962, Winter 2020, (Client: Sargon).



- Bartoszyk, M., Corbaxhi, K., Halaweh, A., and Kargus, C. "PolliNation Insect Hotels", CIS 4952/4962, Winter 2020, (Client: UMD EIC).
- Brown-Deacon, D., Lee, P., Paul, J., and Schram, C. "Caribbean Cannons", CIS 4952/4962, Winter 2020, Client: Carl Goran).
- Chowdhury, S., Haque, M., and Rahman, M. "Hire Road", CIS 4952/4962, Winter 2020, (Client: Michelle Maltese).
- Dupke, R., Gasiorowski, A., Srour, A., and Weir, J. "Collect Connect", CIS 4952/4962, Winter 2020, (Client: UM Digital Humanities).
- Forester, J., Lokam, N., and Pfau, E. "Inventory Management", CIS 4952/4962, Winter 2020, (Client: Sargon).
- Greear, A., Harrison, S., Klein, P., and Olsofsky, J. "Camp Staff App", CIS 4952/4962, Winter 2020, (Client: Camp Northstar).
- Holmes, C., Patton, L., Salka, A., and Wright, C. "MyCampus", CIS 4952/4962, Winter 2020, (Client: UMD COB).
- Kapadia, P., Myers, M., Pawar, V., and Simon, I. "Teaching Philosophy Cards – Web App", CIS 4952/4962, Winter 2020, (Client: UMD COB).
- Limbaugh, T., Mohammed, M., Younes, T., and Young, N. "Interactive Pollinator App", CIS 4952/4962, Winter 2020, (Client: UMEIC).
- Alhaidi, K., Asoufy, B., Qayed, A., and Saeed, A. "Bakery Website", CIS 4952/4962, Fall 2019, (Client: King's Bakery).
- Ali, M., Alsayad, B., Al-Zyady, I., and Hussein, H. "Patient Transportation", CIS 4952/4962, Fall 2019, (Client: Bright Transportation).
- Abdel-Haq, A., Attard, J., Lisk, E., and Moore, M. "Landscape VR", CIS 4952/4962, Fall 2019, (Client: UM SEAS).
- Alsayad, A., Daoud, I., Dimovich, M., and Jeafer, Y. "Maestro", CIS 4952/4962, Fall 2019, (Client: UMD CIS).
- Ambriz, A., Lohner, M., and Saleh, B. "Montra", CIS 4952/4962, Fall 2019, (Client: Carl Goran).
- Boggs, B., Denoyer, N., Gagnon, C., and Picciuto, A. "Neural Burnout", CIS 4952/4962, Fall 2019, (Client: UMD CIS).

- Dungarani, R., Jani, H., French, S., and Hechtman, P. "GigBuddy", CIS 4952/4962, Fall 2019, (Client: Michelle Maltese).
- Abulenain, M., Balan, C., Braley, E., and Moshen, A. "Tripout", CIS 4952/4962, Summer 2019, (Client: Michelle Maltese).
- Alshohati, A., Baraka, S., Niak, S., and Stanford, N. "Brunch and Slay", CIS 4952/4962, Summer 2019, (Client: Ameerah Saine).
- Alhamdi, N., Pittman, T., White, A., and Zamora, M. "Snag My Wedding", CIS 4952/4962, Summer 2019, (Client: Tammy Bowser).
- Al-mugoter, A., Karim, S., and Tarraf, A. "Gamification Website", CIS 4952/4962, Summer 2019, (Client: Sargon).
- Baker, A., Bacheldor, J., O'Brien, S., and Shewmaker, J. "Frequency", CIS 4952/4962, Summer 2019, (Client: Treon Kranz).
- Jackson, J., Lu, J., Seman, M., and Zanjac, J. "UMD Analytics", CIS 4952/4962, Summer 2019, (Client: Carl Goran).
- Johnson, P. and Schwartz, K. "Predictive Analytics", CIS 4952/4962, Summer 2019, (Client: Sargon).
- McAllister, B., Raby, J., Kohls, M., and Simhan, S. "Push Point", CIS 4952/4962, Summer 2019, (Client: Urban Science).
- Munaser, I., Nasir, O., Opolski, T., and Tu, K. "Pro e-Wallet", CIS 4952/4962, Summer 2019, (Client: David Lee).
- Abu-kwaik, H., Bhatt, R., El-loh, K., and Joshi, A. "Accomp List", CIS 4952/4962, Winter 2019, (Client: Jen Romanowski).
- Ahmed, M., Krayem, A., London, M., and Wack, S. "Accomp List", CIS 4952/4962, Winter 2019, (Client: UMD-CECS).
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- Hawrot, B., Hill, T., Kassir, A., Masri, R., and Nolin, W. "Second Life Hunger Exhibit", Winter 2009, (Client: Gleaners Inc.)
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- 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 Control System", CIS 4952/4962, Summer 2008, (Client: Karmanos Cancer Institute).
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- 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 Squilletts, 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 Waideo, 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 Safiendine, 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).

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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).

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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).

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

- Dronsele, 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.; Crispin, 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).
- Kakrapudi, 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**

- Gaming Day, January 2020, 45 students, course director.
- Boy Scout Programming Merit Badge, January 2020, 48 students, course director.
- Boy Scout Game Design Merit Badge, November 2019, 44 students, course director
- Gaming Day, January 2019, 48 students, course director.
- Boy Scout Programming Merit Badge, January 2019, 44 students, course director.
- 3D Game Festival, December 2018, 30 participants, organizer.
- Boy Scout Game Design Merit Badge, November 2018, 48 students, course director
- 2D Game Festival, October 2018, 40 participants, organizer.
- Gaming Day, January 2018, 48 students, course director.

- Boy Scout Programming Merit Badge, January 2018, 43 students, course director.
- 3D Game Festival, December 2017, 40 participants, organizer.
- Girl Scout Badge Workshop, December 2017, 28 students, course director.
- Boy Scout Game Design Merit Badge, November 2017, 38 students, course director
- 2D Game Festival, October 2017, 40 participants, organizer.
- High School Game Programming Competition, March 2017, 16 participants, contest director.
- Girl Scout Badge Workshop, March 2017, 26 students, course director
- Gaming Day, February 2017, 58 students, course director.
- Boy Scout Programming Merit Badge, January 2017, 21 students, course director.
- 3D Game Festival, December 2016, 50 participants, organizer.
- Girl Scout Badge Workshop, December 2016, 28 students, course director.
- Boy Scout Game Design Merit Badge, November 2016, 34 students, course director.
- Girl Scout Badge Workshop, November 2016, 24 students, course director.
- 2D Game Festival, October 2016, 70 participants, organizer.
- Girl Scout Badge Workshop, May 2016, 26 students, course director
- High School Game Programming Competition, March 2016, 28 participants, contest director.
- Gaming Day, February 2015, 53 students, course director.
- Boy Scout Programming Merit Badge, January 2016, 48 students, course director.
- 3D Game Festival, December 2015, 50 participants, organizer.
- Girl Scout Badge Workshop, December 2015, 48 students, course director.
- Boy Scout Game Design Merit Badge, November 2015, 48 students, course director.
- 2D Game Festival, October 2015, 70 participants, organizer.
- Girl Scout Badge Workshop, October 2015, 38 students, course director.
- 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.