**GRANTS**

Internal

 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, 5/18-6/19, ($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. “Nattu Natarajan Collegiate Professor Discretionary Award”,

 CECS, 9/17-8/18,($6000 PI).

 Maxim, B. and Brunvand, S. “Introducing Active Learning and Gamification

 to a Software Project Course”, Creative Teaching Fund UM-Dearborn,

 5/17-12/17, ($1000 with $1000 matching funds).

 Kessentini, M.; Maxim, B,; and Neji, S. “Gamifying and Socializing the

 Teaching and Learning of Software Engineering”, Creative Teaching

 Fund UM-Dearborn, 6/17-4/18, $3000,(CoPI B. Maxim, S. Neji).

 Maxim, B. and Brunvand, S. “Introducing Role-Play and Gamification into a

 Software Project Course”, Creative Teaching Fund,UM-Dearborn, 1/17

 -5/17, ($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 Michgan, 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, 3/16-12/16, ($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 PI).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CIS

 Team, Winter 2014, ($500 PI with K. Akingbehin).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CECS

 Team, Winter 2013, ($750 PI with K. Akingbehin).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CECS

 Team, Winter 2012, ($750 PI with K. Akingbehin).

 Maxim, B. College of Engineering and Computer Science

 2011 Design Competition Advisor's Award - Winning

 CIS Team ($500 PI).

 Xu, Z. “Model-Driven Self Healing Software Engineering,”

 Henry Patton Center for Engineering Education and

 Practice, 9/08-8/10, $60,000 (CoPI: N. Seliya,

 B. Maxim, and J. Guo)

 Maxim, B. “UM-Dearborn Service Learning Fellow”,

 2009-2010, ($1000 PI).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CECS

 Team, Winter 2010, ($750 PI with K. Akingbehin).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CECS

 Team, Winter 2009, ($750 PI).

 Maxim, B. “External Service Award”, University of

 Michigan-Dearborn, Winter 2008,($3000 PI).

 Maxim, B. “Distance Learning Course CIS 577”, CECS

 Development Award, Winter 2008, ($3500 PI).

 Maxim, B, “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CIS

 Team, Winter 2008, ($500 PI with Akingbehin, K.).

 Maxim, B. “Game Design Laboratory”, CECS Dean, Fall 2007,

 ($62,500 PI with Elenbogen, B.; Shen, J.; and

 Grosky, W.).

 Maxim, B. R. and Patel, N. “Learning by Gaming: An

 Immersive Environment for Teaching Kids Cursive

 Handwriting”, CEEP, 9/07 – 8/08, ($35,000 PI).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CIS

 Team, Winter 2007, ($500 PI with Akingbehin, K.).

 Maxim, B. R. and Patel, N. “Learning by Gaming: An

 Immersive Environment for Teaching Kids Cursive

 Handwriting”, CEEP, 9/06 – 8/07, ($26,000 PI).

 Maxim, B. “Distance Learning Course CIS 488/588”, CECS

 Development Award, Winter 2006, ($3,500 PI).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CECS

 Team, Winter 2006, ($1000 PI with Patel, N.).

 Maxim, B. “Torque Game Engine Licenses”, CECS Dean,

 Winter 2006, ($2,500 PI).

 Seliya, N. “Agile Software Engineering Laboratory”, CECS

 Dean, Winter 2006, ($40,000 CoPI: Maxim, B.;

 Patel, N.; and Grosky, W.

 Maxim, B. “Distance Learning Course CIS 487/587”, CECS

 Development Award, Fall 2005, ($3,500 PI).

 Maxim, B. “Distance Learning Course CIS/ECE 479 and CIS

 579”, CECS Development Award, Spring 2005, ($6000 PI).

 Maxim, B. “College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning CIS

 Team, Winter 2005, ($500 PI with Akingbehin, K.).

 Maxim, B. “Laboratory Equipment Replacement 1190EC”,

 CECS Dean, 2004, ($40,000 PI).

 Maxim, B. College of Engineering and Computer Science

 2004 Design Competition Advisor's Award –Winning

 CECS Team ($750 PI).

 Maxim, B. “Laboratory Equipment Replacement 1080EC”, CECS

 Dean, 2003, ($36,000 PI).

 Maxim, B. College of Engineering and Computer Science

 2003 Design Competition Advisor's Award – Winning

 CIS Team ($500 PI).

 Maxim, B. College of Engineering and Computer Science

 2002 Design Competition Advisor's Award - Winning

 CIS Team ($500 PI).

 Maxim, B. College of Engineering and Computer Science

 2001 Design Competition Advisor's Award - Winning

 CIS Team ($500 PI).

 Maxim, B.; Agius, M.; George, D.; Nagy, J. and Smojver,

 T. "Purchase Hardware to Support Interactive

 Training System", UMD Campus Grants ($275 PI).

 Maxim, B.; Kozlowski, E.; Lake, J.; and Patel, J.

 "Software to Support Distributed Data Collection",

 UMD Campus Grants ($350 PI).

#  Maxim, B. College of Engineering and Computer Science

 Support for WWW Course Material Creation ($800 – PI).

 Maxim, B.; Deng, J.; Patel, B. and Yu, R. "Hardware to

 Support Distributed data Collection". UMD Campus

 Grants ($500 PI).

 Maxim, B.; Marcus, K.; and Blais, M. "Purchase Hardware

 to Support Experiments with Autonomous Intelligent

 Agents", UMD Campus Grants ($360 PI).

 Maxim, B. College of Engineering and Computer Science

 Support for WWW Course Material Creation ($2000 PI)

 Maxim, B. College of Engineering and Computer Science

 2000 Design Competition Advisor's Award - Winning

 CIS Team ($500 PI).

 Maxim, B.; Modesitt, K.; Elenbogen, B.; and Akingbehin,

 K. "Purchase of Software and User Interaction

 Devices to Support User Interface Design and

 Software Engineering Instruction", 1999 Chancellor’s

 Technology Fund, ($1,050 PI).

 Ray, I.; Ray, I.; and Maxim, B. "Design and Verification

 of Secure E-Commerce Protocols: DFR Model Checker

 License", UMD Campus Grants ($1,500 PI).

 Yoon, D., Maxim, B., et. al. "The Integration of CAD and

 CAM via CORBA", 1999 Chancellor's Technology Fund,

 ($3,000 CoPI).

 Maxim, B. "Proposal for a World Wide Web Engineering Case

 Study: Student Schedule Generation Tool", UMD

 Center for Engineering Education and Practice,

 ($2,000 PI).

 Maxim, B. College of Engineering and Computer Science

 Design Competition Advisor's Award 1999 – Winning

 College Team ($750 PI).

 Maxim, B. College of Engineering and Computer Science

 Support for WWW Course Material Creation ($400 PI).

 Maxim, B.; Modesitt, K.; and Ray, I.; and Ray, I.

 "Desktop Distance Learning Software", 1998

 Chancellor’s Technology Fund, ($3,000 PI).

 Maxim, B.; Modesitt, K.; Elenbogen, B.; Tsui, L.; and

 Yoon, D. "High Resolution, Portable, Multimedia

 Computer Projector", 1998 Chancellor’s Technology

 Fund, ($7,000 PI).

 Maxim, B. College of Engineering and Computer Science

 Design Competition Advisor's Award - Winning College

 Team, 1998 ($1,000 PI).

 Maxim, B. College of Engineering and Computer Science

 Support for WWW Course Material Creation ($1,200 PI)

 Maxim, B.; Modesitt, K.; and Zhu, Q. "Supporting

 Development of Embedded Intelligent Software", 1997

 Chancellor’s Technology Fund ($3,000 PI).

 Maxim, B. and Elenbogen, B. 1997 School of Engineering

 Design Competition Advisor's Award ($500 PI).

 Maxim, B.; Modesitt, K.; and Kannan, R. "Supporting

 Collaborative Work Using Desktop Video

 Conferencing", 1996 Chancellor’s Technology Fund

 ($4,000 PI).

 Maxim, B. R.; Zhu, Q; and Ray, S. "Development of a

 Video Conferencing Network", 1995 Chancellor’s

 Technology Fund ($3,050 PI).

 Maxim, B. "Development of a Hashing Tool", 1993

 Chancellor’s Technology Fund ($1,000 PI).

 Akingbehin, K. and Maxim, B. "A Wireless Classroom

 Connection to CIS Local Area Network", 1993

 Chancellor’s Technology Fund ($2,000 PI).

 Maxim, B. "Adding an Ethics Component to the

 Undergraduate Computer Science Curriculum", 1992

 University of Michigan-Dearborn Educational

 Enhancement Grant ($1,050 PI).

External: Cash

 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, 8/17-9/19, ($104,000

 with $28,000 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, 9/08-4/15 ($100,000 with

 $45,000 matching CoPI)

 Maxim, B. R. “Learning by Gaming: An Immersive

 Environment for Teaching Kids Cursive Handwriting”,

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

 Maxim, B. R. and Grosky, W.“Educating Homo Ludens:

 Introducing Information Technology Through Game

 Design”, Association of Computing Machinery Special

 Interest Group on Computer Science Education, 7/06 –

 6/07, ($3,600 PI).

 Shen, J.; Akingbehin, K.; Maxim, B.; and Yoon, D.

 "Perliminary Study on Open Architecture E-Computing

 Center for Design in Engineering and Science",

 Ameritech award, 9/02-8/03 ($17,000 CoPI).

 Ray, I.; Akingbehin, K.; Maxim, B.; Ray, I.; and Zhu, Q.

 "Computer and Network Security Research Center",

 National Science Foundation 9/99 – 8/02 Research

 Instrumentation grant ($83.934 with $74,004

 Matching CoPI).

 Maxim, B. and Elenbogen, B. "Distance Learning in

 Computer and Information Science Courses Using

 Virtual Computing Laboratories", Ameritech,

 ($24,500 PI)

 Akingbehin, K.; Maxim, B.; Elenbogen, B.; Tsui, L.; and

 Yoon, D. "Development of an Open Systems

 Laboratory", National Science Foundation 1994 ILI

 award, ($44,000 CoPI).

 Elenbogen, B.; Maxim, B.; Akingbehin, K.; Tsui, L.; and

 Yoon, D. "Parallel and Distributed Computing

 Laboratory", National Science Foundation 1994 ILI

 award, ($52,000 CoPI).

 Maxim, B. and Akingbehin, K. "1991 Program Development

 Grant", Marathon Oil Corporation ($1,500).

 Maxim, B. and Akingbehin, K. "1990 Knowledge Engineering

 Program Development Grant", Federal Mogul

 Corporation ($5,000 PI).

 Maxim, B. and Akingbehin, K. "1990 Program Development

 Grant", Marathon Oil Corporation ($2,000 PI).

 Maxim, B. and Akingbehin, K. "1989 Knowledge Engineering

 Program Development Grant", Federal Mogul

 Corporation ($5,000 PI).

 Verhey, R. and Maxim, B. "1989 Program Development

 Grant", Marathon Oil Corporation ($2,000 PI).

 Verhey, R. and Maxim, B. "1988 Program Development

 Grant", Marathon Oil Corporation ($2,000 CoPI).

 Verhey, R. and Maxim, B. "1987 Program Development

 Grant", Marathon Oil Corporation ($2,000 CoPI).

 Maxim, B. "Development of Algorithm Animation Software to

 Support Computer Science Instruction", 1986

 University of Michigan Center for Research on

 Learning and Teaching Educational Enhancement Grant

 ($3,600 PI).

 Verhey, R. and Maxim, B. "1986 Program Development

 Grant", Marathon Oil Corporation ($2,000 CoPI).

External: In-kind

 Maxim, B. "2015 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2014 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2013 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B, “2012 BlackBerry Education Partner”, ten

 BlackBerry Torch Cell Phones, five 16GB Playbooks,

 three 32GB Playbooks, (Hardware with estimated market

 value $9300 PI).

 Maxim, B. "2012 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2011 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2010 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2009 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2008 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2007 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2006 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2005 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2004 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2003 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2002 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. "2001 Oracle Educational Partner", Oracle

 Corporation, (Software with estimated market value

 $1,200,000 PI).

 Maxim, B. and Modesitt, K. "2000 Oracle Educational

 Partner", Oracle Corporation,(Software with estimated

 market value $1,200,000 PI).

 Maxim, B. and Modesitt, K. "1999 Oracle Educational

 Partner", Oracle Corporation,(Software with estimated

 market value $9,500,000 PI).

 Maxim, B. and Modesitt, K. "199 Microsoft Laboratory

 Software Licenses", Microsoft Corporation,(Software with

 estimated market value $50,000 PI).

 Maxim, B. and Modesitt, K. "1998 Oracle Educational

 Partner", Oracle Corporation,(Software with estimated

 market value $13,015,000 PI).

 Maxim, B. and Modesitt, K. "1998 Microsoft Visual

 Development Studio Lab Grant", Microsoft Corporation

 (Software with estimated market value $4,000 PI).

 Maxim, B. and Modesitt, K. "July 1997 Microsoft

 Developer Curriculum Project", Microsoft Corporation

 (Software with estimated market value $99,300 PI).

 Maxim, B. and Modesitt, K. "March 1997 Microsoft

 Developer Curriculum Project", Microsoft Corporation

 (Software with estimated market value $68,500 PI).

 Maxim, B. and Modesitt, K. "1996 Oracle Educational

 Partner", Oracle Corporation,(Software with estimated

 market value $6,500,000 PI).

 Maxim, B. and Modesitt, K. "July 1996 Microsoft

 Developer Curriculum Project", Microsoft Corporation

 (Software with estimated market value $58,500 PI).

 Maxim, B. and Modesitt, K. "1995 Oracle Educational

 Partner", Oracle Corporation,(Software with estimated

 market value $1,200,000 PI).