**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).