

CURRICULUM VITAE

Andrew J. Novobilski, Ph.D.

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Academic Degrees and Fellowships

American Council on Education Fellowship, 2007-2008 Academic Year
The University of Nebraska at Lincoln, Office of the Chancellor

Doctor of Philosophy, May 2000, The University of Texas at Arlington, Arlington, TX.
Dissertation: Forecasting Time Series Data Using Naturally Selected Bayesian Networks

Master of Science in Computer Science and Engineering, May 1988, UT Arlington, Arlington, TX.
Thesis: Surface Fitting to Three Dimensional Voxel Data

Bachelor of Science, May 1982, Drexel University, Philadelphia, PA.
Major: Computer Science

Research Interests

Academic Leadership, Community Partnership & Engagement, Data mining/analytics, Biomedical Informatics, Statistical Machine Learning, Aviation (PPSEL), Genetic Programming, High Performance Computing.

Professional Experience

Independent Consultant **May 2013 – present**
Provide guidance and support in the application of data analytics for extracting useful/actionable knowledge from large data sets.

Gannon University, Erie, PA **July 2012 – May 2013**

Provost and Vice President for Academic Affairs, July 2012 – January 2013

Special Projects Consultant, February 2013 – May 2013

- Serving Gannon University's 4,300 students and 200 faculty members as Chief Academic Officer, with administrative responsibility for three colleges, Institutional Research, Service Learning, community outreach and Distance Education. Responsible for \$30.5M annual budget.
- Prepare and present materials to the Board of Trustees and serve as a member of Board of Trustees Academic Affairs Committee.
- Supporting Middle States Self Study steering committee in completing self study, communicating results and expectations to multiple constituencies (including trustees), and preparing for team visit Spring '13.
- Coordinate with senior administrative team in active support of the university's efforts in mission and ministry, budget control, enrollment management, student development, strategic planning, fund raising, new program development, and international partnerships.

- Developed and presented the academic affairs perspective section of the Mission and Ministry new faculty orientation program.
- Serve on the strategic planning steering committee, providing input, advice, and direction regarding aspects of the plan related to academic affairs and the key intersection points with other divisions. The plan will become operational March, 2013.
- Traveled with president to Madaba, Jordan in support of his signing a Memorandum of Understanding with American University of Madaba.
- Arranged for Gannon to recruit for the first time at the SREB Compact for Faculty Diversity Institute on Teaching and Mentoring and served as a recruiter at the event.
- Accepted into the Middle States Commission on Higher Education's peer reviewers program.
- Professor of Computer Engineering

Arkansas State University, Jonesboro, AR**July 2009 – June 2012**Interim Associate Vice Chancellor for Research and Technology Transfer, March 2012 – June 2012

- Serve as Chief Research Officer with responsibilities for the administration of the Office of Research and Tech Transfer, the support of Centers of Excellence in Community Outreach and Digital Initiatives, and official oversight of research related committees.
- Interim Executive Director of the Arkansas Biosciences Institute at ASU with responsibilities for administrative oversight of technical, professional, support, and research faculty and staff.

Dean of the College of Sciences and Mathematics, July 2009 – June 2012

- Serving the college's 1,300 students, 100 faculty/staff members, and 18 research faculty in support of the MS/BS degrees offered by the departments of Biology, Chemistry/Physics, Computer Science, and Mathematics/Statistics, two interdisciplinary PhD programs, and \$14M in research expenditures. Responsible for \$21M annual budget. Activities accomplished by the College of Sciences and Mathematics include:
 - Development of strategic goals (6 month/18 month/36 month) through a formal listening exercise involving faculty and staff with written results used to focus allocation of college resources.
 - Development, in partnership with Student Affairs, of the STEM Den Living Learning community for students involved in Science, Technology, Engineering, and Math.
 - Provide ongoing development opportunities for senior faculty, college administrators, administrative staff, and 16 new faculty members through a scheduled seminar program.
 - Implementation of a college wide budget tracking process in support of transitional reallocation of funding sources (recovered F&A costs and differential tuition) to provide departments greater discretion (and responsibility for) use of budgeted funds.
 - Oversight of \$2.4M facilities upgrade/renovation project and \$2M in equipment upgrades including multi source funding for a shared High Performance Computing cluster and lab.
 - Worked with ASU Creative Services to develop new "branding" for the college.
 - Worked with ASU Development in support of securing funding for two new research field stations, one of which represented the single largest gift to date (\$3M) for the university.
- Program Director for ASU McNair Achievement Program serving first generation, low income, high achieving students interested in graduate education.

- Member of the ASU Self-Study Steering Committee for upcoming reaffirmation of accreditation review and site visit by the NCA Higher Learning Commission. Co-chair of the Acquisition, Discovery, and Application of Knowledge sub-committee.
- PEAQ Consultant-Evaluator for the Higher Learning Commission of the North Central Association of Colleges and Schools (2010).
- Member of Multicultural Student Center Advisory Board
- ASU recruiter at the SREB Compact for Faculty Diversity Institute on Teaching and Mentoring.
- Tenured Professor of Computer Science

University of Tennessee at Chattanooga, Chattanooga, TN**August 2000 – June 2009**Assistant Provost for Research and Engagement; Chief Research Officer, July 2008 - 2009

- Supervised the Office of Grants and Research, provided reporting support to the UT System Office of Research, and served on steering committee for SACS accreditation visit.
- Worked with university faculty to engage in, and grow, cross-disciplinary research activities, including the implementation of the first annual Research Day for faculty, graduate, and undergraduate students.
- Partnered with the UT College of Medicine, the Chattanooga and Hamilton County Chambers of Commerce, and other community organizations to support UTC's role as an engaged metropolitan university.
- Professor (Tenured, 2004), Department of Computer Science and Engineering

ACE Fellow, University of Nebraska at Lincoln, Aug. 2007-2008

- Coordinated ad hoc UNL committee that participated in the Downtown Lincoln Association Retail Planning Activity.
- Developed a whitepaper on the issues and opportunities related to information management and technology within the university environment.
- Attended a series of workshops, seminars, and campus visits with members of the cohort covering a broad set of issues (leadership development, planning, financial, student advising, athletics, research, etc.).

Department Head, Department of Computer Science and Engineering, April 2003 – June 2009

- Served 200 undergraduate students, 30 graduate students, 11 faculty members, four adjunct faculty members, an administrative assistant, and five graduate assistants in support of the department as it:
 - Added Electrical Engineering undergraduate and graduate programs (2005-2007) to Computer Science until a stand alone department was developed.
 - Secured \$1.3M in internal and external support (grants and equipment donations) for initiatives in Network Security, Information Forensics, Visualization, and Autonomous Vehicle Control.
 - Increased faculty/student research with graduate and undergraduate students resulting in 17 jointly authored conference papers within the department, several departmental honors projects (undergraduate), and 12 Masters students graduating via the thesis option.
 - Worked with UTC Cooperative Education Department to strengthen ties with the community (e.g., TVA, Mckee Foods and Microsoft) and increase opportunities for our students.
 - Strengthened inter-college and Chattanooga Community partnerships via service learning. Projects included the Neurological Music Therapy web system (with the College of Education), and RCP Corp GPS Student Tracking project (with the Hamilton County Business Incubator).

- Coordinated efforts to create a Masters Certificate in Medical Informatics with colleagues in Math, Nursing, Continuing Education, and industry partner Blue Cross Blue Shield of Tennessee.
- Encouraged faculty in funded efforts to reach underrepresented groups in the areas of science, technology, engineering and math by making facilities available for teacher training and student education, working with community organizations, and by recruiting students as facilitators.
- Additional departmental accomplishments included:
 - Successful ABET/CAC Interim Accreditation Report (2004) and reaccreditation (2008).
 - Certification to offer the NSA / Homeland Security Certificate in Information Assurance.
 - State of Tennessee approval to offer BS Electrical Engineering degree.
 - Offering courses to the community in the area of Information Forensics and Data Security.
- Activities in Service to the university at large:
 - Chaired the University Curriculum Committee during the mandated move to a 120 hour degree limit.
 - Chair of the Council of Academic Department Heads 2004-05.
 - Voice of the UTC Marching Mocs (Football Marching Band '03-'06)

Director of Master of Science in Computer Science program May 2003-July 2004.

- Authored, with the offices of Program Review and Institutional Research, the successful Computer Science Masters program review self study required by the Tennessee Higher Education Commission.
- Worked with Graduate Coordinator, and Graduate Faculty in Computer Science to implement a revised Masters Program in Computer Science beginning the fall of 2005.

Associate Professor, August 2000 - March 2003

- Beginning in 2003, and continuing until 2009, worked with SimCenter faculty in identifying opportunities of mutual interest to both Computational Engineering and Computer Science, including the establishments of relationships with Symantec and Computer Associates.
- From 2001 through 2009, collaborated with the UT College of Medicine Erlanger Unit departments of Internal Medicine, Emergency Medicine and Surgery faculty in research, in partnerships between medical faculty and faculty in the College of Engineering and Computer Science. Served on the Research Advisory Committee for the Internal Medicine Residents Research Program from 2003 until 2009.

NovoTech Incorporated, Chattanooga, TN (also TX, CT)

May 1991 – 2002

President and Principal

Started a software design and development consulting firm with \$3K equipment investment and grew it to \$900K/YR in annual revenue. Services included product planning, design/development, and business process evaluation/support. A partial list of clients include:

- Infocruiser, internet database appliance software development, Bioinformatics.
- GE Medical Systems, automated programming language translation.
- GTE, large telecommunications project software development audit and improvement.
- Lockheed-Martin Aerospace, in-field collection/access of space vehicle maintenance data.
- IBM, electronic charting of medical information.
- Waypoint Technologies, GIS/GPS mapping and asset tracking.
- Claritas, GIS Mapping and precision marketing.
- Phibro Corp., Commodity trading workstation.
- additional organizations including Gateway Computer, Federal Express, DEC, Ibis, and ATT.

The Stepstone Corporation, Sandy Hook, CT**February 1988 – April 1991**

Senior Member of Technical Staff

Design and development of Objective-C object-oriented programming language compiler, browser, and educational products. Support of Sales and Marketing efforts.

Automation and Robotics Res. Inst., UT Arlington, TX**September 1987 – January 1988**

Graduate Research Assistant

Studied the effectiveness of a Hueckel type operator to detect curvature in two dimensional images using self-developed image processing software for the Macintosh II.

Tandy Electronics R&D, Ft. Worth, TX**October 1984 – September 1987**

Project Leader

Design and development of software systems including support libraries, user interface, and low level support routines (OS enhancements, Device Drivers, ROM-drive, etc.) for various personal computer projects.

Microwave Development Labs, Inc., Natick, MA**January 1984 – September 1984**

Research Assistant

Provided software development and data analysis for use in the design of microwave wave guide components.

The Sperry Corporation, Southampton, PA**September 1982 – September 1983**

Associate Programmer.

Developed information display and analysis software for Anti-Submarine Warfare applications.

Publications*Books*

1. Novobilski, Andrew. PenPoint Programming. Addison-Wesley. 1992.
2. Cox, Brad, A. Novobilski. Object-Oriented Programming: An Evolutionary Approach, 2nd Edition. Addison-Wesley. 1991.

Journal Articles

1. Lobo, Bento, A. Novobilski, S. Ghosh. "The Economic Impact of Broadband: Estimates from a Regional Input-Output Model", *The Journal of Applied Business Research*, Vol. 24, Number 2, 103-114. 2008
2. Yang, Li, C. Phuong, A. Novobilski, and R. Ege. "Trust-based Usage Control in Collaborative Environment", *The International Journal of Information Security and Privacy*, Volume 2, Issue 2, April-June 2008.
3. Kline, Jeffery, A. Novobilski, et al. "Derivation and Validation of a Bayesian Network to Predict Pretest Probability of Venous Thromboembolism", *The Annals of Emergency Medicine*, April 2005.
4. Dumas, Joe, A. Novobilski, D. Ellis, M. Pascal. "VR on a Budget: Developing a Flight Simulator in a Small Institution with Off-The-Shelf Hardware and Open Source Software", *The Journal of Computing in Small Colleges*, December 2002.
5. Oman, Paul, A. Novobilski, V. Rajlich, J. Harband, T. McCabe, J. Cross, L. Vanek, L. Davis, K. Gallagher, and N. Wilde. "Maintenance Tools", *IEEE Software*, pp. 59-65, May 1990.
6. Novobilski, Andrew. "Pictorial Design Notation", *Journal of Object Oriented Programming*, pp. 9-14, July/August 1990.

Conference Proceedings

1. Novobilski, Andrew. "A Counter Propagation Network for Currency Price Forecasting Under Uncertainty," *The International Symposium on Computer Science and Technology*, May 2012.
2. Chen, Su, S. Davis, H. Jiang, A. Novobilski. "CUDA-based Genetic Algorithm on Traveling Salesman Problem." *The 10th IEEE/ACIS International Conference on Computer and Information Science*, May 2011.
3. Harris, Billy, A. Novobilski. "Virtual Worlds, Real Money," *The International Multiconference in Computer Science and Computer Engineering*, July 2008.
4. McCullough, Claire, A. Novobilski, F. Fesmire. "Use of Neural Networks to Predict Adverse Outcomes from Acute Coronary Syndrome for Male and Female Patients." *The Sixth International Conference on Machine Learning and Applications*, 2007
5. Novobilski, Andrew, F. Fesmire, R. Palmiero. "The Impact of Software Instrumentation on Clinical Evaluations" *The 16th International Conference on Artificial Neural Networks in Engineering (ANNIE)* November, 2006.
6. Joseph M. Kizza, L. Yang, A. Novobilski, K. Winters, "TMAS Capstone Project." *Proceedings of Computer Forensics Conference, Las Vegas*, 2006.
7. McCullough, Claire, A. Novobilski, F. Fesmire. "Prediction of Adverse Outcomes of Acute Coronary Syndrome Using Intelligent Fusion of Triage Information with HUMINT." *Conference on Multisensor, Multisource Information Fusions: Architecture, Algorithms, and Applications* 2006.
8. Ellis, Dawn, S. Karman, A. Novobilski, R. Haimes. "3D Visualization and Manipulation of Geometry and Surface Meshes." *44th AIAA Aerospace Sciences Meeting & Exhibit Reno, NV* 2006.
9. Tyler, Tom, A. Novobilski, J. Dumas, A. Warren. "The Utility of Perspecta 3D Volumetric Display for Completion of Tasks." *17th Annual Symposium Electronic Imaging Science and Technology* 2005.
10. Novobilski, Andrew, F. Fesmire, D. Sonnemaker. "Mining Bayesian Networks to Forecast Adverse Outcomes Related to Acute Coronary Syndrome." *The 17th International FLAIRS Conference* 2004.
11. Novobilski, Andrew, J. Kline, F. Fesmire. "Using a Genetic Algorithm to Identify Predictive Bayesian Models in Medical Informatics." *The International Conference on Information Technology (ITCC)* 2004.
12. Fesmire FM, Novobilski A. "First step in the Erlanger Artificial Intelligence Initiative: development of a Bayesian network utilizing initial triage history to risk stratify chest pain patients for thirty-day adverse outcome." [Abstract]. *Ann Emerg Med* 2003;42 (in press).
13. Novobilski, Andrew. "The Random Selection and Manipulation of Legally Encoded Bayesian Networks in Genetic Algorithms", *The 2003 International Conference on Artificial Intelligence (ICAI)* 2003
14. Novobilski, Andrew, F. Kamangar. "Bayesian Learning with Selective Subsets of Populations in Genetic Programming", *The Conference on Smart Engineering System Design: Neural Networks, Fuzzy Logic, Evolutionary Programming, Complex Systems and Data Mining (ANNIE)* 2002.
15. Novobilski, Andrew. "Pervasive/Invasive Computing: Two Sides of the Location Enabled Coin", *The 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)* 2002.
16. Novobilski, Andrew, F. Kamangar. "A Genetic Algorithm Based Approach for Discovering Temporal Trends Using Bayesian Networks", *The 6th World Conference on Systemics, Cybernetics, and Informatics*. 2002.
17. Novobilski, Andrew, F. Kamangar. "Average Percent Error Based Fitness Functions for Evolving Forecast Models." *The 14th International FLAIRS Conference*, 2001.

18. Novobilski, Andrew, F. Kamangar. "Inferencing Bayesian Networks from Time Series Data Using Natural Selection", *The 13th International FLAIRS Conference*, 2000.
19. Novobilski, Andrew, F. Kamangar. "A Two-Tiered Cognitive Model for Forecasting Time Series Data", *Second International ICSC Symposium on Neural Computation*, 2000.
20. Novobilski, Andrew, F. Kamangar. "A Genetic Algorithm Based Approach for Discovering Temporal Trends Using Bayesian Networks." *The 19th International Symposium on Forecasting*. 1999.

Invited Talks

1. "Discovery through Datamining", *The International Symposium on Computer Science and Technology, Ningbo, China, May 2012*.
2. "Data, Databases, and Discovery", *The UT College of Medicine Nuts and Bolts Research Symposium*. 2006
3. "Mining Bayesian Networks from Pulmonary Embolism Data", *Blue Cross Blue Shield of Tennessee Technical Series*. 2006
4. "Using Genetic Algorithms to Mine Bayesian Networks from Medical Data" *Southern Adventist University*. 2004
5. "Inferencing Bayesian Networks from Time Series Data Using Natural Selection", *The Chattanooga, TN Chapter of the IEEE*. 2001

Workshop Participation

1. *Organized, in partnership with IBM, Chattanooga Technology Council, and the Riverbend Technology Institute, a Roundtable on High Performance Computing, October 2006.*
2. *Supported recruitment of, sponsorship development and volunteer support for, the cre824 international web programming contest, 2005.*
3. *Organized, in partnership with IBM, UT College Of Medicine, and RTI, a Roundtable on Healthcare Informatics, October 2005, focusing on Electronic Medical Records.*
4. *Chattanooga Heart/Stroke Conference, University of Tennessee College of Medicine, 2005.*
5. *Tennessee Bioscience Workshop, 2004.*
6. *Annual Internal Medicine Update. Univ. of Tenn College of Medicine, Chattanooga Unit. 2002- 2007*
7. *Workshop On Mathematical Models of Cancer. Vanderbilt University. 2002*

Academic Support

McNair Achievement Program. (PI) Department of Education, TRIO Programs. \$880,000. 2009 – 2012.

Multiprocessor Objective-C Computer System for High Performance Computing. (PI) The THEC Center of Excellence for Applied Computational Science and Engineering. \$61,200. February 2006 – May 2007.

Development of a Proof of Concept Application. (PI) RCP, Inc. \$2,500. September 2005-June 2006.

Neurological Music Therapy (Co-I with Martha Summa-Chadwick, Pat Kopetz). The Chattanooga Community Foundation. \$19,845 April 2005 – present.

Neurological Music Therapy (Co-I with Martha Summa-Chadwick, Pat Kopetz). The UC Foundation Faculty Development Program. \$3,000 April 2005 – present.

Identification and Classification of Regional Resources in Autonomous Control Technologies. (PI) The Riverbend Institute. \$18,000. August 2004-May 2005.

TeamUTC – The DARPA Grand Challenge (Co-Advisor with Ed McMahon, Phil Kazemersky, Ron Bailey). Multiple sources. \$33,000 August 2004 – May 2005.

Increasing Awareness of Opportunities for Women in Computing. (PI) The Riverbend Institute. \$1,450. August 2004-May 2005.

Microsoft Partner in Education. Multiple projects. \$12,000 August 2004 – present.

Development of Information Forensic Seminar. (Co-PI with Joseph Kizza). The UC Foundation. \$10,000. August 2004-May2005.

Integration of Symantec Software with the Network Security Lab. (Co-PI with Joseph Kizza, Kyle Anderson, Billy Harris). The Symantec Corp. \$50,000. January 2004-December 2005.

*The i*trACS Artificial Intelligence Initiative: Development of Bayesian and Neural Networks Utilizing Key Data Elements for Real Time Identification and Exclusion of Acute Coronary Syndromes.* (co-PI with Francis Fesmire, MD, Judd Hollander, MD, and William Baxt, MD), Dataset, October 2003.

The Identification of Bayesian Network Models from Pulmonary Embolism Data. BreathQuant, \$2,000, July 2003 – December 2003.

Enhanced Information Perception Through Virtual Reality, (Co-PI with Joe Dumas). The Lupton Renaissance Fund, \$69,900, May 2003 – December 2004.

Integration of Virtual Reality Hardware with Open Source Flight Simulator Software in Support of Aviation and Space Education, (Co-PI with Joe Dumas), The Wolf Aviation Foundation, \$9,360, September 2001 – May 2002.

Integration of Virtual Reality Hardware with Open Source Flight Simulator Software in Support of Aviation and Space Education, (Co-PI with Joe Dumas), The UTC Challenger Center, \$3,500, September 2001 – May 2002.

Analysis of Data Produced by Natural Selection of Forecast Models, (PI), Center of Excellence in Computer Applications, \$1,418, January 2001 – May 2001.

Industry Research Oriented Support

Database-centric Market Opportunities in Bioinformatics, (As NovoTech, Inc.). InfoCruiser, \$7,500, December 2001 - January 2002.

Convergence Enabling Technology using Social Interfaces, (As NovoTech, Inc.). Gateway 2000, \$680,000, January 1997 – June 1998.

Development of a Verifiable Translation Methodology for Large Objective-C Codebases to C++, (As NovoTech, Inc.). GE Medical, \$100,000, January 1997 – June 1998.

Large Project Software Technology Audit with Implementation of Suggested Improvements, (As NovoTech, Inc.). GTE, \$200,000, October 1996 – May 1997.

Competitive Assessment of Integrated Software Development Environments for C++, (As NovoTech, Inc.). IBM, \$74,000, September 1996 – November 1996.

A Prototype Based Study on the Effectiveness of Pen-based Computers for Remote Collection of Data, (As NovoTech, Inc.). Lockheed Martin, \$470,000, November 1993 – December 1995.

Requirements Gathering, Software Design, and Implementation Strategy for a PC Based Electronic Medical Records Package, (As NovoTech, Inc.). Spacelabs Medical, \$70,000, January 1993 – April 1993.

A Comparative Study of Object-Oriented Language Models for Use in Building a Common Object Broker, (Co-PI with Brad Cox, Z. Dombrowski and K. Lehrman at Stepstone), IBM, \$500,000, April 1991– June 1991.

Professional Societies and Activities

Community Activities:

Member of the Caribbean Student Environmental Alliance Board of Directors, 2009 - present
Member of the Chattanooga Technology Council Board of Directors, 2003-2009, President 2005-06
Member of the Southern Adventist University Computer Science Advisory Board, 2005-2009
Member of the Pulaski Technical Community College Science Advisory Board, 2010-2012
Member of the Riverbend Technology Institute Advisory Board, 2006-2009
Rotarian since 2011, Jonesboro, AR and Erie, PA

Editorial:

Object Magazine, editor, special issue on Frameworks, 1996
Object Magazine, editorial board, 1991-1997

Reviewer:

Netherlands Organization for Health Research and Development (ZonMw) ICT and COPD Care Program 2009
National Science Foundation Equipment Grant Program (2004), CCLI Program (2008, 2009)
Journal of Object Oriented Programming
Object Magazine
Distributed Object Computing
Addison-Wesley, Prentice-Hall
IEEE Software

Program Committee:

Co-chair, FLAIRS 2003 - 2005 Special Track on Artificial Intelligence in Medicine
Uncertainty Track for FLAIRS 2001, 2002, 2003

Member:

ACM, IEEE, ASEE, SigmaXi, AOPA

Honors and Awards

- Student Affairs Hero Award for dedication and service to the Student Affairs Division at Arkansas State University, September 2010.
- Elected to Sigma Xi Research Society and Upsilon Pi Epsilon Computer Science Honor Society, May 2004.
- UT Chattanooga Outstanding Computer Science Teaching Award, November 2001
- IEEE Tools Fair Award for Maintenance Tools, May 1990

Graduate Student Research Activities

- Alexandra Yates (MS Thesis, 2007). "Parallel Extensions to Objective-C"
- Michael Wade (MS Thesis, 2007) "An Investigation of the Sudoku Puzzle."
- Hirsohi Yamakawa (MS Thesis, 2007). "Cross Cultural Issues in International Website Design."
- Miyuki Tatsumi (MS Thesis, 2007). "Comparing Author Keywords to Reader Keywords in Search Applications."
- Tom Tyler (MS Thesis, 2005): "The Utility of Perspecta 3D Volumetric Display for Completion of Tasks"
- Abe Mishler (MS Thesis, 2005). "A Method of Cloaking Passive RFID Medical Implants in Humans"

Undergraduate Student Research Activities

- Nathan Dalton (BS/Honors Project, 2007). "Measuring the impact of Software Engineering on Education."
- David Chilton (BS/Honors Project, 2006): "Simulating Changes in an Interstellar Ice Due to Photolysis Over Time"
- John Kilby (BS/Honors Project, 2005): "A Probability Based Agent for Learning Emotions in Texas Hold 'em"
- Adam Cofer (BS/Dept. Honors Project, 2003): "A Probabilistic Approach to Learning Playing Strategies for Mancala"
- Jesse St. Charles (BS/Honors Project, in progress). "A Graphical Teaching Environment for Swarm Theory."
- Rachel Palmero (UHON Project Participation 2004-05): "Analysis of the Impact of Physician's Opinion on Diagnostic Accuracy.""
- Alma Cemerlec (UHON Project Participation 2003-04): "Implementation of Stereo Rendering Points in Flight Simulation Package"
- Sonja Petrovic (UHON Project Participation 2002-03): "Identification of Stereo Rendering Points in Flight Simulation Package"
- Mark Pascal (Project Participation 2001-02): "Addition of Voice Notification to Flight Simulation Package"
- David Sonnemaker (Project Participation 2002-03): "Identification of Causal Relationships in Patient Data Related to Abdominal Aortic Aneurysms"