

Curriculum Vitae
Kevin Berisso, Ph.D.
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EDUCATION

- Ph.D. Indiana State University, Terre Haute, Indiana. May 2003. Major: Technology Management, with a manufacturing systems specialization. Dissertation title: *A Comparison Of Measurement Variations For Selected Probe Head Configurations For Coordinate Measuring Machines*. Advisor: Dr. Jeffery McNabb.
- M.S. Indiana State University, Terre Haute, Indiana. May 1996. Major: Industrial Technology, with an emphasis on computer integrated manufacturing and bar coding.
- B.S. Ohio University, Athens, Ohio. June 1994. Major: Industrial Technology, with an emphasis on computer systems.

TEACHING EXPERIENCE

- 2019-Present University of Memphis. Associate Professor, Graduate Coordinator, and director AutoID Lab.
- 2013-2019 University of Memphis. Assistant Professor. Responsibilities include the robotics and automation lab (increased robot count from 2 to 16) and the automatic identification lab. Classes include automation and robotics, introduction to engineering technology, PLCs, data structures, modern programming and the senior project two-class sequence. Graduate classes include technical writing and statistics. Automatic identification lab responsibilities include the development of the lab, solicitation of projects and equipment and technology transfer activities with Memphis based companies. Robotics familiarity include Fanuc, Adept, Mitsubishi, ABB, IBM, Sony and Motoman.
- 2011-2013 Ohio University. Associate Professor & Director of the Automatic Identification and Data Capture (AIDC) Laboratory
- 2005-2011 Ohio University. Assistant Professor & Director of the Automatic Identification and Data Capture (AIDC) Laboratory. Responsibilities have included teaching and maintaining the laboratories for the machining courses, the production tooling (jigs and fixtures) course, the AIDC Lab and the robotics course. Internal collaborative activities have included obtaining and commissioning a portable CMM from the Mechanical Engineering department and the development of a new interface for the Electrical Engineering and Computer Science's model automated storage and retrieval system. Center activities include the development of a new business plan, grant/contract solicitation and

execution, hardware acquisitions, tech-transfer activities, educational/workshop activities and the annual summer technical institute.

- 2003-2005 University of Central Missouri (*formally Central Missouri State University*). Assistant Professor (tenure track). Responsible for teaching undergraduate and graduate classes, student advising, and the Automation and Robotics Laboratory in the Industrial Technology department. Topics taught include computer numerical control, robotics, industrial automation, materials testing, production planning and control and facilities management.
- 2001-2002 Indiana State University. Instructor (1-year contract). Responsible for teaching a standard load, as well as continued duties in the Computer Integrated Manufacturing Laboratory. Classes taught were MCT 578 (graduate class), MCT 478, MCT 477, MCT 430 and MCT 295. All classes were personally developed, based on existing syllabi or class descriptions.
- 1996-1998 Industrial Training (Applied Tactical Systems). Provide applications training to end users and system administrators for custom inventory programs. Additional training was conducted for system administration and maintenance for computer support personnel. Responsibilities included the development of all training material, as well as the on-site training.

CLASSES TAUGHT

- 2013-Present
- TECH 1411 – Introduction to Engineering Technology
 - TECH 1811 – Electronic Circuit Technology
 - TECH 2261 – Data structures
 - TECH 3822 – PLCs
 - TECH 4234 – Automatic Identification Applications
 - TECH 4474 – Automation and Robotics
 - TECH 4623 – Server Application Technology
 - TECH 4823 – Advanced PLCs
 - TECH 4943 – Senior Project Planning
 - TECH 4945 – Senior Project
 - EECE 4992 – Electrical Computer Project II (for EE/CE department)
 - TECH 7015 – Applications of Statistical Methods for Industry
 - TECH 7020 – Technical Research Writing
 - TECH 7402 – Advanced Quality Systems
- 2005-2013
- IT 103 – Computer Applications in Industrial Technology
 - ETM 1030 – Computer Applications in Industrial Technology
 - ETM 206 – Computer Methods in Industrial Technology
 - ETM 216 – Metal Machining
 - ETM 217 – Production Metal Machining (CNC)
 - ETM 303 – Applications in Object Oriented Programming (C#)
 - ETM 351 – Production Tooling
 - ETM 3540 – Automatic Identification
 - ETM 4330 – Radio Frequency Identification for the Supply Chain
 - ETM 4350 – Robotics and Automation
 - ETM 464 – Robotic Applications
 - ETM 490 – Independent Studies

- 2003-2005 INDM 5020 - International Technology Management
 MMgt 4520 - Robotics and Automation
 MMgt 4240 - Facilities Management. Co-taught with Dr. Ron Woolsey.
 MMgt 3562 - Computer Numerical Control
 MMgt 3550 - Principles of Numeric Control
 MMgt 3520 - Manufacturing Economy
 MMgt 3510 - Manufacturing Planning and Control
 MMgt 2040 - Materials Testing
 MMgt 1012 - Global Production Technology
- 2000-2003 ECT 663 - Theory of Electronic Control. Assisted Dr. Jeff McNabb.
 ECT 661 - Robotic Electronic Control. Assisted Dr. Jeff McNabb.
 MCT 5/478 - Industrial Organization
 MCT 477 - Plant Layout and Materials Handling
 MCT 430 - Senior Seminar
 MCT 295 - Introduction to Computer Applications in Industrial Technology

CURRICULUM DEVELOPMENT

- 2016 TECH 3822 (PLCs). Significantly overhauled PLC class to incorporate the Compactlogix platform by Rockwell Automation (class previously only went as far as the SLC processor family). FactoryTalk View (HMI) and FactoryTalk Transaction Manager was also added.
- 2015 TECH 4474 (Automation and Robotics). Significantly updated existing robotics class to incorporate machine vision, Fanuc-based palletizing and integration of PLCs with the robots. An additional Fanuc LR-Mate was added.
- 2012 ETM 4350 (Robotics and Automation). Updated robotics class to incorporate ETM 435 (Industrial Controls). The merging of the two classes was a part of the conversion from quarters to semesters, and required a complete redesign of the class so as to allow for an additional 7 weeks of content from the industrial controls class, including sensors, PLCs and PIDs.
- 2008 IT433 (Radio Frequency Identification in the Supply Chain). Updated and functionally developed and submitted to the curriculum council an RFID class based on the concept of Dr. Todd Myers. The class covers the technical aspects of RFID, use of the technology, integration issues, privacy issues and a practical final project. Additionally, there is a strong programming component of the class where students are required to develop functioning RFID applications.
- 2004 MMgt 2040 (Engineering Material Science) Revised the existing Materials Testing class so that the new class will meet the changing needs of the department. The new class will be included in the proposed Industrial Engineering Technology program being developed by the department. The revised class will incorporate material from an introductory materials class and will concentrate on various materials and the appropriate testing methodologies.
- 2000 MCT 295 (Introduction to Computer Applications in Industrial Technology). Redeveloped the existing class curriculum so that it satisfied the new Information Technology Literacy requirement for the university. The new class

design was successfully approved after review by the Department, School of Technology, Dean, Curriculum Academic Affairs Committee and University Faculty Senate.

INDUSTRIAL EXPERIENCE

- 2012-Present BAIT Consulting. President. Responsible for the development of solutions for the various customers. The majority of the work is custom RFID based applications development using Alien and MTI RFID hardware. The company was created based on the need to distribute software that was developed while a professor at Ohio University, however the bulk of the revenue is from custom software development for RAIN RFID systems.
- 1998-2000 Delphi Automotive/Rapid Design Service, Inc. Manufacturing Engineer. Responsibilities included creating mechanical and electrical build prints, management of the build process, and the installation and validation of the machines. Required skills included mechanical and electrical design work, AutoCAD drafting, General Motors process design activities (FMEA analysis, design for manufacture-ability, lean cell design, etc.), Allen Bradley PLC programming, project management, troubleshooting/debugging and machine documentation. The job also required integration support and training for the machines, on-site in Mexico.
- 1996-1998 Applied Tactical Systems. Project Engineer. Responsibilities included project management, programming, end-user training, system design and project implementation. Interfacing with the customer was necessary in order to determine their needs and to insure that they received what they needed, as well as what they requested. Required skills included programming in Visual Basic and TCL/TK, application training, troubleshooting, design work and on site modifications, as well as any required coordination with the office. Additional skills included database administration in Oracle 7 and SQL Server 6.5, hardware (PC and mobile data collection tools) installation and support, and Windows NT/95 administration.

SOFTWARE DEVELOPMENT

- 2007-Present Developed, sold and supported various software programs.
- RFID ME Software Development Kit – Developed a .NET compliant interface for the RFID ME family of RFID readers. The units are USB HID devices and the manufacturer only provides a low level API for communicating with the readers. This development kit allows programmers to more easily interface with the device.
 - RFID ME keyboard wedge software – Developed an interface to the RFID ME USB reader. The unit is a USB/HID compliant device.
 - Alien RFID Wedge – Software to interface with the Alien Technologies series of RFID readers. The software took the tag information and pushed it to the keyboard buffer allowing any computer program to consume the RFID tag data.
 - Alien tag programming software – Allowed user to scan a bar code and encode the value into a UHF RFID tag. System also interfaced with a PLC.

- Alien RFID Race Management Software – Developed software that captured tags being used in races (5K, 10K, marathons) to track runners. System logged data from multiple readers and generated a single output file that could be imported into traditional race management software.
- Feig RFID Wedge – Software to interface with the Feig MR-100 series HF-RFID reader. The software took the tag information and pushed it to the keyboard buffer allowing any computer program to consume the RFID tag data.
- Alien RFID tracking service – Software that was developed as a Windows service that consumed the tag data from an unlimited number of RFID readers, allowing for the tracking of tags within a conference center.
- Various handheld (Windows Mobile/Windows CE and Android OS) applications that included bar code and RFID data collection as well as miscellaneous utilities.

CONSULTING EXPERIENCE

- 2024-Present Expert Witness (undisclosed client). Assisting with early-stage RFID patent portfolio review with intent to embark on a licensing campaign. Reviewing claim charts for patent portfolio to determine licensing opportunities.
- 2022 Expert Witness (undisclosed client). Design Patent case, working for the defense. Initial review of materials was begun, general topic is mobile bar code scanning. Dismissed.
- 2021-2024 Expert Witness for plaintiff, Paragon Data Systems, Inc. – Bar code/SAP system development trade secret misappropriation case. Deposed. Case was settled in favor of client.
- 2020-2023 Expert Witness for the defense (Shell). Worked with a UK legal team on a patent infringement case for Shell, where they were sued for patent infringement in the use of QR Codes on their mobile payment system. Testified in UK court. Judgement was in the client's favor.
- 2020-Present Expert Witness for the plaintiff (Tomra) – machine vision performance. Expert reports have been exchanged. I have reviewed a baseline example of the solution in dispute and have traveled to the defendant's site. Deposed. Case has been settled.
- 2016 Expert Witness for the defense – Mobile bar code patent infringement. *Symbology Innovations, LLC v. Adams Extract et al.*, Case No. 2:15-cv-01169-JRG-RSP, 2:15-cv-01170-JRG-RSP (E.D. Tex.). Produced expert report but was not deposed. Settled.
- 2016 Expert Witness for the defense – Programmable Logic Controller patent infringement. *Rockwell Automation, Inc. v. 3S-Smart Software Solutions, GmbH*, Case No. 2:15-cv-1543 (E.D. Tex.). Settled. Assisted with claim

construction for 17 contented patents. Settled prior to final submission of expert report.

- 2013-2014 Expert Witness for the defense – Software trade secret infringement. *GlobeRanger Corporation v Software AG, Software AG USA, Inc., Software AG Inc., Naniq Systems, LLC and Main Sail, LLC*, C. A. No. 3:11-CV-403-B in the United States District Court Northern District of Texas Dallas Division. Testified, no deposition.

- 2013 Expert Witness for the defense – Patent infringement. *Aeritas, LLC v. Alaska Air Group, Inc.*, C.A. No. 11-967-SLR; *Aeritas, LLC v. Delta Airlines, Inc.*, C.A. No. 11-969-SLR; and *Aeritas, LLC v. US Airways, Inc.*, C.A. No. 11-1267-SLR settled in the United States District Court for the District of Delaware. Deposition only.

- 2012-
Present BAIT Consulting – Created my own consulting company to allow for the licensing and sales of the software that was created while at Ohio University. The company provides custom and standard AIDC based software solutions, incorporating MTI and Alien RFID readers.

- 2007-2012 RFID Enabled Solutions – Provided RFID based technical support, hardware integration development and support. Projects included integrated and stand-alone RFID reader solutions as well as the integration of other input devices such as scales, finger print readers, magnetic door locks and light stacks. UHF antenna development and integrated mobile UHF RFID readers are currently underway.

- 2010 Source Technologies – Conducted 2 day AIDC training for marketing, sales and technical support staff. Topics centered on how the company can better use various AIDC technologies in their current solutions. A follow-up training session was conducted at Source Technologies.

- 2009 Medtronic – Conducted half-day AIDC training and technology transfer session with engineering and information technology personnel. Various processes were evaluated for compatibility with RFID and direct part marking technologies.

- 2009 IEEE – Indianapolis Chapter – Conducted 1 day RFID workshop for local chapter members.

- 2008 Emerson Power – Conducted RFID training for the engineering staff, concentrating on how Emerson can leverage RFID to improve field service operations.

- 2008 Sam Houston State University – Worked with Sam Houston State faculty, as well as Dr. Pedro Reyes from Baylor University, to develop the RFID component of The Sower Technology Laboratory. Activities included developing self-paced lab activities, setting up and configuring hardware, developing necessary software and training Lab faculty on the use of the purchased RFID equipment.

- 2007 Adena Ventures – Conducted a needs analysis for Designer Furniture Warehouse to determine how and where they could integrate bar coding into their existing processes.
- 2006 Northrop Grumman Space Technologies – Developed a three-day workshop for Northrop Grumman on the DOD requirements for radio frequency identification and unique identification. The presentations were supplemented with equipment demonstrations and the third day was a hands-on mini exhibit that was composed of invited vendors who demonstrated their equipment offerings.
- 1991-2011 Miscellaneous Consulting. Industrial Training (Miscellaneous). Provided computer aided drafting (CAD), bar code and radio frequency identification training to individuals from various companies. Training sessions were customized to the requirements and knowledge levels of the participants being trained. Various manuals, interactive activities and teaching aids were developed to assist in the training.

FELLOWSHIPS / ASSISTANTSHIPS

- 2002-2003, 2000-2001 Indiana State University. Doctoral Fellow. Responsible for assisting students with the use of the machinery in the Computer Integrated Manufacturing Laboratory at Indiana State University. Knowledge of PLC's, the laboratory's robots, basic electronics and automation is required. Included in the laboratory were a Brown & Sharpe coordinate measuring machine and a Stratasys rapid prototyping system. Laboratory responsibilities extended to the maintenance and operation of both machines. Also responsible for assistance with new course development and some teaching.
- 1994-1996 Indiana State University. Graduate Assistant. Responsible for assisting students with the use of the machinery in the Computer Integrated Manufacturing and the SIMCO Laboratories at Indiana State University. Knowledge of PLC's, the laboratory's robots, basic electronics, automation, basic woodworking equipment, product design, jig and fixture design, and product design was required.
- Spring 1994 IT 454 Automatic Identification (Ohio University). Responsible for assisting students in a variety of laboratory activities as well as serving as an advisor for the students' final project. Required knowledge of all the hardware and software systems used in class.

LABORATORY EXPERIENCE

- 2013-Present Automatic Identification laboratory, Robotics/Automation laboratory, DC electronics laboratory. Responsible for obtaining new equipment, maintaining existing equipment and general lab layout and configuration. Allen Bradley PLC 5s, Micrologix 1100/1200, CompactLogic, AIDC equipment and software, Fanuc LRMate-200i arms w/vision, Fanuc M1-iA (delta robot) w/vision, Cognex 7404, Keyence CV-3502P, 4 Mitsubishi RH-18S arms and multiple conveyor systems.

- 2005-2013 Machining Laboratory, Automatic Identification and Data Capture Laboratory, Robotics Laboratory (Ohio University). Responsible for supervising maintenance, upgrading and teaching in the machining lab which includes four vertical mills, three horizontal mills, six lathes, a CNC mill and a CNC lathe. The automatic identification lab requires supervision of multiple computers, \$750,000+ in purchased and donated equipment that includes robots, variable speed powered conveyors, bar code scanners and printers, bar code verifiers, radio frequency identification, mobile data collection and biometric equipment. The lab requires constant solicitations to ensure that the equipment is current. The robotics laboratory has been developed from the ground up to currently include two Fanuc S-10 robots, a Mitsubishi RV-M2 robot, powered and gravity conveyors and Keyence machine vision systems.
- 2003-2005 Automation and Robotics Laboratory (Central Missouri State University). Responsible for the development and future direction of the Automation and Robotics Lab. The lab includes a CNC router, 2 Adept SCARA robots, 2 Yamaha robots, 2 Dynamill 2800 CNC mills, 20 Mastercam stations and various bar coding equipment. As a part of my efforts, a five-year plan was developed for the lab, numerous equipment donations were secured and the lab was rearranged.
- 2000-2003,
1994-1996 Computer Integrated Manufacturing Laboratory (Indiana State University). Responsible for assisting students with the use of the machinery in the Computer Integrated Manufacturing Laboratory at Indiana State University. Knowledge of PLC's, the laboratory's robots and RobCad was required.
- 1994 Center for Automatic Identification at Ohio University. Responsible for assisting with the various projects with which the center was involved. This included the creation of a data collection system for the Financial Aid Office at Ohio University. Further duties included assisting with the Center's "Automatic Identification and Data Capture Technical Institute", a weeklong program to educate educators on automatic identification. Responsibilities included preparation and running of various "hands on" laboratories during the course of the program.

PUBLICATIONS (PEER-REVIEWED)

- Berisso, K. (2018). "DotCode Damage Testing." *Journal of Computer Sciences and Applications*.
- Berisso, K. (2018). "Addressing Color Blind Awareness." *Journal of Business and Management Sciences*.
- Berisso, K. (2018). "Reed-Solomon Based Bar Code Character Substitution Rates." *Journal of Business and Management Sciences*.
- Koch, D., Ollison, T., Berisso, K., Dalton, A. & Washer, B. (2015). "Robotics in Education: A Postsecondary Perspective." *Techniques*, vol. 90-6.

- Berisso, K. (2013). "Determining QR Code Sizes for Mobile Scanning." *International Journal of Automated Identification Technology*. Vol. 5(1) .
- Ollison, T. & Berisso, K. (2010). "Coordinate Measuring Machine Variations for Selected Probe Head Configurations." *Journal of Industrial Technology*. January 2010, vol. 26-1.
- Berisso, K. & Ollison, T. (2010). "Three-Dimensional Printing Build Variables That Impact Cylindricity." *Journal of Industrial Technology*, January 2010, vol. 26-1.
- Berisso, K. (2009). "Teaching an Applications-Based Radio Frequency Identification Class." *the Technology Interface Journal*, Fall, 2009, Vol.10(1).
- Matta, V., Berisso, K. & Brokaw, T. (2009). "Prototyping for the Holy Grail of RFID: Return on Investments." *Issues in Information Systems*, Vol. X,(2).
- Matta, V., Koonce, D. & Berisso, K. (2009). "Extending the Semantic Model of RFID functionality." Poster presented at the International Conference of Information Systems, WEB 2009 track in Phoenix, AZ. Won best poster award.
- Berisso, K. & Ollison, T. (2005). "Impacts of Part Orientation on the Roundness of Cylinders Using Three-Dimensional Printing." *2005 NAIT Selected Conference Paper*
- Clyburn, W. & Berisso, K. (2003). "Human-Machine Interfaces for Industrial Control Systems." *2003 NAIT Selected Papers*.
- McNabb, J. & Berisso, K. (2002). "The treatment of five key independent variables for conducting coordinate measuring machine (CMM) experiments." *2002 NAIT Selected Papers*.

PUBLICATIONS (MANUALS)

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| 2004 | Automation and Robotics Laboratory Manual (Central Missouri State University). Developed a laboratory manual that discusses the use of the robots in the lab. The manual includes instructions on how to use the various robots, programming tips and exercises. The sections of the manual include instructions for two different Adept robots, two different Yamaha robots and an automatic identification station. |
| 2001 | Computer Integrated Manufacturing Trainer Laboratory Manual (Indiana State University). Developed a laboratory manual to be used with the computer integrated manufacturing trainer purchased by the department. The unit came with no manuals, literature or other reference material. The manual was developed so that the students would be able to start with a minimal amount of knowledge. Through the exercises, the student would be exposed to the various skills required to do the final integration project in the manual. |

SELECTED PRESENTATIONS

Peer Reviewed Presentations:

- Berisso, K. & McGinnis, J (2017) "Internet Of Things Security" Conference on Internet Computing and Internet of Things. Selected presentation. Las Vegas, NV
- Berisso, K. (2014). "Managing Expectations with Industry – A University Indirect Rate Survey." 2014 ATMAE Conference. Scope: national conference.

- Chandra, V. & Berisso, K. (2014). "What's The Frequency, Kenneth? Integrating RFID Theory with Microcontroller-Based Lab Projects." 2014 ATMAE Conference. Scope: national conference.
- Berisso, K. (2013). "Teaching Hands-on Online: A Proposed Solution for RFID Classes". 2013 ATMAE Conference. Scope: national conference.
- Berisso, K. (2012). "Mobile AIDC: Rethinking Bar Codes". 2012 ATMAE Conference. Scope: national conference.
- Clyburn, W. & Berisso, K. (2012). "Introducing RFID into the Curriculum of an Engineering Technology Program". 2012 ATMAE Conference. Scope: national conference.
- Berisso, K. (2010). "Technical Issues for RFID Adoption." Industry Studies 2nd Annual Conference. Scope: national conference.
- Berisso, K. & Kuruppallil, Z. (2009). "Lean Sigma & RFID." Co-presented at the 2009 ATMAE conference. Scope: national conference.
- Berisso, K. & Deering, P. (2009). "Phidgets: A Practical Solution for Teaching Programming." Co-presented the 2009 ATMAE conference. Scope: national conference.
- Berisso, K. (2009). "Teaching Practical RFID: A Review of Hardware Options." Presented at the 2009 ATMAE conference. Scope: national conference.
- Matta, V. & Berisso, K. (2009). "Prototyping for the holy grail of RFID: Return on Investments." Co-presented at the 2009 IACIS conference. Scope: national conference. *(It should be noted that the presentation was reviewed separately from the paper)*
- Clyburn, W. & Berisso, K. (2008). "Identifying and Solving Interference Problems in Radio Frequency Identification Systems." Co-presented with at the 2008 NAIT Convention. Scope: national conference.
- Berisso, K. & Kuruppallil, Z. (2008). "Real time Inventory in Job Shops Utilizing RFID." Co-presented at the 2008 NAIT Convention. Scope: national conference.
- Myers, T. & Berisso, K. (2007). "RFID for the Supply Chain Manager." Co-presented at the 2007 NAIT Convention. Scope: national conference.
- Berisso, K. (2007). "The outlook for RFID Integrated Supply Chain Studies" Decision Sciences Institute conference. Scope: international conference.
- Moeeni, F., Fales, J., & Berisso, K. (2007) "RFID: Dispelling the hype." Decision Sciences Institute Annual Conference. Scope: international conference.
- Berisso, K. & Ollison, T. (2006). "Comparing The Impacts of Part Orientation On Multiple Rapid Prototyping Technologies." National Association of Industrial Technology convention. Scope: national conference.
- Kangas, G. & Berisso, K. (2006). "Web-based HMI – Process access from around the globe." National Association of Industrial Technology Convention. Scope: national conference.
- Fales, J. & Berisso, K. (2005). "The Role of AutoID Technologies - RFID, Bar Coding, Biometrics, & Smart Cards in Decision Making & Supply Chain Integration." Decision Sciences Institute Conference. Scope: international conference.

- Ohrenberg, R. & Berisso, K. (2005). "Student Recruitment: Help is on the way for Manufacturing Programs." National Association of Industrial Technology convention. Scope: national conference.
- Berisso, K. & Ollison, T. (2005). "Impacts of Part Orientation on the Roundness of Cylinders Using Three-Dimensional Printing." National Association of Industrial Technology convention. Scope: national conference.
- Ollison, T. & Berisso, K. (2005). "Impacts of Part Orientation on Model Strength for Three Dimensional Printing" National Association of Industrial Technology convention. Scope: national conference.
- McBride, R. E. & Berisso, K. (2004) "Rapid prototyping purchasing considerations for academia and smaller companies." Rapid Prototyping & Manufacturing Conference 2004. Scope: international conference.
- Berisso, K. (2003). "Hands-on bar coding for the technology education lab," Technology Education Association of Missouri Fall Conference. Scope: regional conference.
- Berisso, K. (2003). "A comparison of measurement variations for various probe head configurations for coordinate measuring machines." National Association of Industrial Technology convention. Scope: national conference.
- Clyburn, W. W. & Berisso, K. (2003). "Human machine interfaces for industrial control systems." National Association of Industrial Technology convention. Scope: national conference.
- McNabb, J. & Berisso, K. (2002). "The treatment of five key independent variables for conducting coordinate measuring machine (CMM) experiments." National Association of Industrial Technology convention. Scope: national conference.
- McNabb, J., McBride, R. E. & Berisso, K. (2002). "Rapid prototyping – after the purchase." National Association of Industrial Technology convention. Scope: national conference.

Selected Invited Presentations:

- Berisso, K (2025). Various presentations and live demonstrations at RFID Journal Live.
- Berisso, K (2024). Various presentations and live demonstrations at RFID Journal Live.
- Berisso, K (2023). Various presentations and live demonstrations at RFID Journal Live.
- Berisso, K (2022). Various presentations at RFID Journal Live.
- Berisso, K (2021). Linking RFID to PLCs Linking RFID to PLCs Part II – The PLC Strikes Back . RFID Journal Live Encore
- Berisso, K (2020). Linking RFID to PLCs to Automate Manufacturing. RFID Journal Live
- Berisso, K. (2019). Bluetooth Low Energy workshop. RFID Journal Live.
- Berisso, K. (2018). Bluetooth Low Energy workshop. RFID Journal Live.
- Berisso, K. (2015). "Is it really IoT? Developing a methodology." Internet of Things – West Conference (Las Vegas). Scope: international conference.

- Berisso, K. (2015). "Is it really IoT? Developing a methodology." 2015 Alien User Conference (Las Vegas). Scope: international conference
- Berisso, K. (2015). "Automatic Identification – Use it or lose it." Material Handling Teacher's Institute. Scope: national conference
- Berisso, K. (2013). "Mobile AIDC: QR Codes Reduex?". ProMat 2013. Scope: international conference.
- Berisso, K. (2012). "A survey of Internet of Things applications." MODEX 2012. Scope: international conference.
- Berisso, K. (2010). "Unlocking the Value in RFID." IEEE & SME Columbus area chapters. Scope: regional meeting.
- Berisso, K. (2010). "AIDC Data Integration." RFID Journal Live. Scope: international conference.
- Berisso, K. (2009). "An RFID Demonstration." Baylor RFID Integrated Supply Chain Symposium. Scope: national conference.
- Berisso, K. (2008). "RFID Hands-On Demonstration." Baylor RFID Integrated Supply Chain Symposium. Scope: national conference.
- Berisso, K. & Myers, T. (2007). "Radio frequency identification: A practical discussion of how it can help your business." IEEE & SME Columbus area chapters. Scope: regional meeting.
- Berisso, K. (2007). "Applied Bar Coding and RFID Workshop" Identity Solutions Symposium and Workshop. Scope: national conference.
- Berisso, K. (2006). "2D Bar Codes for the Normal Person." Coast Guard 2D Symposium. Scope: national conference.
- Berisso, K. (2006). "Future Trends – Today: RFID and AIDC - Radio Frequency Identification Tags and Automatic Identification and Data Capture." Ohio MRDD Conference. Columbus OH.
- Berisso, K. (2006). "Supply Chain Gadgets: AIDC in the Supply Chain." SupplyNet 2006. Scope: regional conference.
- Myers, T. & Berisso, K. (2006). "Radio Frequency Identification for Manufacturers." Columbus, Ohio chapter of the Society of Manufacturing Engineers. Scope: local meeting.
- Myers, T. & Berisso, K. (2005). "Future Trends – Today: RFID and AIDC - Radio Frequency Identification Tags and Automatic Identification and Data Capture." Ohio MRDD Conference. Scope: regional conference.

FUNDING / GRANTS / CONTRACTS

- 2021-2023 GS1 Bar Code Testing. \$455,000 to conduct various robotic bar code testing projects.

- 2021-Present ARM Technology grant. \$498,000 to develop an AI assisted task creation solution. Project manager/principle investigator with two sub-awardees (DeepHow and Ready Robotics). The system will assist novice robot programmers in the task development process, helping the programmer to develop programming solutions that are equal to those that are produced by experienced, expert programmers.
- 2021-Present FRONTIERS “RFID Tracking Shipments” project. \$10,000 to work with a FedEx Institute of Technology client on the implementation of an RFID tracking system that leverages machine learning to improve system design and functionality.
- 2020-Present Workforce Opportunity for Rural Communities (WORC 2): A Grant Initiative for the Appalachian and Delta Regions (FOA-ETA-20-04). \$1,013,896 grant from the U.S. Dept. of Labor for workforce development. Principle Investigator.
- 2018 2018 FedEx Institute of Technology Biologistics Research Fellow. \$10,000. “Smart Sensor Communications Congestion Testing.” Currently conducting Bluetooth Low Energy performance testing.
- 2017 MCR Safety Vest Testing. \$6,666. Conducted testing in conjunction with the Dept. of Mechanical Engineering on new safety vest liner material for MCR.
- 2016 2016 FedEx Institute of Technology DRONES Research Fellow. \$12,000. “Bluetooth Low Energy (BLE) Beacon-assisted Localization Solutions.” Investigate the feasibility of implementing a BLE beacon based solutions. University of Memphis FedEx Institute of Technology Seed Grant.
- 2015-2016 Solicited and received funds (\$43,300) for the annual Automatic Identification Teacher’s Institute (AITI).
- Obtained \$30,000 from the Material Handling Educational Foundation for the summer AITI
 - Obtained \$10,000 from GS1-Global Office for the summer AITI
 - Obtained \$2,500 from the AIDC 100 for the summer AITI
 - Plus additional sponsors
- 2015-2016 GS1 US “Supplemental 1D Judge.” \$91,500 to develop and build a NIST traceable linear bar code verification solution that will become the new “gold standard,” performing the initial verification and certification of all GS1 US Certified Calibration Standard Test Cards.
- 2015 HMI Project. \$18,331 to assist in the development of a fail-over HMI solution for the PLCs that control the conveyors within the facility.
- 2014 Solicited and received funds for the annual AIDCTI.
- Obtained \$20,000 from the Material Handling Educational Foundation for the summer AIDCTI
 - Obtained \$10,000 from GS1-Global Office for the summer AIDCTI

- Obtained \$2,500 from the AIDC 100 for the summer AIDCTI
- Obtained \$1,000 from MSM Systems for the summer AIDCTI
- Obtained \$1,000 from Evanhoe & Associates for the summer AIDCTI
- Obtained \$1,000 from Axicon for the summer AIDCTI
- Obtained an addition \$3,500 from paying participants

GS1- “Set up testing lab.” \$6,000 to assist in the setup and development of a bar code testing lab at the University of Pittsburg.

2013	GS1- “Set up testing lab.” \$6,999 to assist in the setup and development of a bar code testing lab at the University of Pittsburg.
2012	Solicited and received funds for the annual AIDCTI. • Obtained \$25,000 from GS1-Global Office for the summer AIDCTI • Obtained \$14,000 from the Material Handling Educational Foundation for the summer AIDCTI • Obtained \$1,000 from the AIDC 100 for the summer AIDCTI • Obtained \$1,000 from PathGuide Technologies for the summer AIDCTI • Obtained \$1,000 from Alien Technology for the summer AIDCTI • Obtained \$800 from Axicon for the summer AIDCTI • Obtained an addition \$2,300 from paying participants
2011	Solicited and received funds for the annual AIDCTI. • Obtained \$25,000 from GS1-Global Office for the summer AIDCTI • Obtained \$10,000 from the Material Handling Educational Foundation for the summer AIDCTI • Obtained \$1,000 from the AIDC 100 for the summer AIDCTI • Obtained \$1,000 from PathGuide Technologies for the summer AIDCTI • Obtained \$800 from Axicon for the summer AIDCTI • Obtained \$500 from Mr. Chuck Biss for the summer AIDCTI
2011- 2012	GS1 – “Cell phone testing”. \$30,000 to test cell phones as a bar code scanning device. Testing is currently ongoing, but more than 60,000 scans have been performed and analyzed. Fifteen student workers, a graduate researcher and an undergraduate researcher were managed. Software development for iPhones, Android phones and Windows Phone 7 were included in the project.
2011-2012	GS1 – “Multiple bar code testing”. \$30,000 to test how point of sale scanners respond to multiple symbols within the scan envelope.
2010	Intermec – “Bar code printer testing”. \$1,503 to test the performance of printer heads.
2010	Formica – “RFID tag study”. \$1,000 to determine if RFID tags can be embedded in the metal plates used during production.
2009-2012	GS1 – “Bar code robustness testing”. \$198,689 to date to test various bar code symbologies under a number of different simulated conditions including point of sale scanning, hand held scanning and high speed scanning.

- 2008 Ontario Lottery and Gaming Corp – “Magnetic Card Testing”. \$5,896 to test the performance of various card readers and cards of varying age.
- 2008 Solicited and received funds for the annual AIDCTI.
- Obtained \$17,000 from AIM Global for the summer AIDCTI
 - Obtained \$1,000 from the Automotive Industry Action Group for the summer AIDCTI
 - Obtained \$800 from Axicon for the summer AIDCTI
- 2008 GS1-US – “A Proposal to provide the hardware for a device to measure and analyze high precision, NIST traceable, matrix symbology test targets.” \$194,700 to build a 2D bar code verification system.
- 2007 Altec Cartridges – “Bar code print quality report.” \$500 to verify the print quality from remanufactured laser printer cartridges.
- 2007 Arjobex – “RFID Moisture testing.” \$3,234 to test the impacts of humidity on RFID labels.
- 2007 Explotrack – “RFID/PJM testing assistance.” \$2,284 to help test the functionality of an RFID tunnel.
- 2007 Explotrack – “RFID chipless technology report.” \$800 to develop a report on the current availability of chipless RFID technologies.
- 2007 Ontario Lottery and Gaming Corp – “Interleaved 2 of 5 robustness testing.” \$27,601 to test the character substitution rates of the I 2 of 5 bar code symbology.
- 2007 RFID Solutions Center – “RFID freezer testing.” \$9,880 to test RFID tags while in a -100 F freezer.
- 2006 Solicited and received funds for the annual AIDCTI.
- Obtained \$17,000 from AIM Global for the summer AIDCTI
 - Obtained \$2,800 from Hand Held Products for the summer AIDCTI
 - Obtained \$1,000 from LXE for the summer AIDCTI
 - Obtained \$1,000 from Logmation for the summer AIDCTI
 - Obtained \$800 from Axicon for the summer AIDCTI
- 2004 Central Technology Grant – Received \$2,600 to obtain concrete training for the construction management faculty and myself. The training was presented by the Portland Cement Association, one of the concrete trade associations. The training lasted 1.5 days and covered the basics of concrete, mix design, wet concrete tests and finishing practices. Six professors/doctoral fellows and six students attended.
- 2004 CMSU Faculty Professional Travel Grant – Received \$270 to present at the National Association of Industrial Technology convention in Louisville, Kentucky.
- 2004 CMSU Professional Enhancement Committee Grant (Primary Applicant) – Received \$570 for materials to be used for rapid prototyping research (this was a peer reviewed grant).

2003 CMSU Faculty Professional Travel Grant – Received \$600 to present two papers at the National Association of Industrial Technology convention in Nashville, Tennessee.

PROFESSIONAL DEVELOPMENT / TRAINING

2021 Yaskawa Academy Certified trainer for YRC1000 controller (renewed for 2024)

2018 Laser Safety Training

2014 Nao robot training.

2014 Self-taught Java programming

2013 Sony Robotics training.

2012 Keyence Vision Systems training.

2011 Self-taught Microsoft C# programming language.

2010 Alien RFID Academy – “Beyond the Physics” two day advanced training session on the use of RFID.

2010 Datalogic Automation (bar code scanners, RFID readers).

2007 Received my CompTIA RFID+ certification.

2006 RF Code Training. Attended a two day training session on the use of RF Code’s active RFID equipment.

2006 Alien RFID Academy. Attended a three day training session on the use of RFID and specifically Alien Technology’s RFID equipment.

2005 Faro CMMs. Attended a 3 hour training session from the local Faro representative on the use of the Faro portable CMM arm the depart has on loan from the Mechanical Engineering Department. I have become the department lead on internal trainings of the equipment and software.

2005 Portland Cement Association. Attended 10 hours of training on the basics of concrete. Topics included the basics of concrete, mix design, wet concrete tests and finishing practices.

2004 National Science Foundation Regional Grants Conference. Attended the grant conference at Washington University in St. Louis. The conference included sessions on grant writing, awards management, the merit review process and breakout sessions for the Education & Human Resources Division and the Engineering Division.

2004 Automatic Identification and Data Capture Technical Institute. Attended this week-long institute in Athens, Ohio, that includes a series of lectures as well as hands-on lab time. Topics addressed include bar coding, magnetic stripe, biometrics and radio frequency identification (RFID), among others. This year’s emphasis included RFID and the new electronic product code specifications.

- 2004 Project Lead The Way. Attended the Project Lead The Way (PLTW) level one summer training session for the Principles of Engineering course. PLTW is a national pre-engineering program whose goal is to increase the quality and quantity of engineers and engineering technologists. The Principles of Engineering class is designed to help students to understand what engineering is through the exploration of various engineering skills and activities.
- 2004 ZCorp end-user training. This training was for the new rapid prototyping machine that CMSU owns. The machine is being used in MMgt 3560 and for personal research.
- 2004 Instron end-user training. This training was for the new universal testing machine that the Industrial Technology department had purchased. The training covered usage of the machine which is used in MMgt 2040.
- 2002 Brown and Sharpe. Received training on the use of DataPage and DataView for UNIX. These two packages are used for the collecting and evaluating of data received from the Brown & Sharpe Microval PFX coordinate measuring machine that Indiana State University has.
- 2001 Stratasys FDM3000. Received training on the use of the FDM3000 rapid prototyping machine and software (Insight).

AWARDS / HONORS

- 2022/3 Named R. Eugene Smith Professor for the Herff College of Engineering
- 2017 Department of Engineering Technology received the AIM North America Business of the Year award for efforts in the AIDC space
- 2017 Memphis Joint Engineering Council - Featured Engineer
- 2013 Inducted into the AIDC 100, a not-for-profit, self-sustaining, non-political, international organization of automatic identification and data capture (AIDC) professionals and others who have significantly contributed to the growth and advancement of the industry
- 2012 Ted Williams Award (presented annually by AIM Global to a professor or student in recognition of innovative and exceptional contributions that can further the growth of the industry through their work as a teacher, researcher and entrepreneur)
- 2007, 2009, 2011, 2012 Marvin E. and Ann D. White Department Research Award.
- 2002 Epsilon Pi Tau – Inducted to EPT as a Member-At-Large. EPT is the International Honorary for Professions in Technology.
- 1994 2nd Place – 1994 SME Ohio Intercollegiate CADD Shoot-out.
- 1993 1st Place – 1993 Ohio Intercollegiate CADD Shoot-out, Autocad division.
- 1993 2nd Place – 1993 Ohio Intercollegiate CADD Shoot-out, finals.

1989 Eagle Scout – Boy Scouts of America

GRADUATE COMMITTEES

- 2010 Thesis committee member for Harish Bharti (Ohio University, MS Industrial and Systems Engineering). *To Validate the Model of “Semantic Breakdown of Functionality of a Matrix of RFID Technology to Support Application Development”*
- 2009 Thesis committee member for Will Holland - (Ohio University, MS Industrial and Systems Engineering). *Development of an Indoor Real-time Localization System Using Passive RFID Tags and Artificial Neural Networks.*
- 2009 Thesis committee member for Jerney Anderson - (Ohio University, MS Industrial and Systems Engineering). *A Study of Nutrient Dynamics in Old Woman Creek Using Artificial Neural Networks and Bayesian Belief Networks.*
- 2009 Thesis committee member for Mathivanan Sivanesan (Ohio University, Master of Communication Technology and Policy). *RFID Security System Development.*
- 2008 Thesis committee member for Carlos Egas – (Ohio University, MS Industrial and Systems Engineering). *A Methodology For Datamining Customer Orders History For Storage Assignment*
- 2008 Dissertation committee member for Jeff Ulmer (Indiana State University, PhD program). *A Study Of ASQ And SME Members On The Effects Of Continuous Improvement Practices And Certifications On Quality Cost For Small-To-Midsized United States Manufacturing Companies.*
- 2007 Dissertation committee member for Troy Ollison (Indiana State University, PhD program). *The Effect Of Build Orientation, Printhead Wear And Recycled Build Material Utilization On The Cylindricity Of Three-Dimensional Printed Parts.*
- 2007 Dissertation committee member for Zaki Kuruppallil (Indiana State University, PhD program). *Leanness And Agility In Job Shops: A Survey Instrument Developed Using The Delphi Method.*
- 2005 Thesis committee member for Andy Dick (Ohio University, MS Mechanical Engineering). *Development Feasibility of a Universal Industrial Robot / Automation Equipment Controller.*
- 2002 Committee member for Dimas Gutierrez (Indiana State University, MS Industrial Technology - Major Project). *Barcode System Integration with an Automated Storage and Retrieval System in the CIM Lab at ISU.*
- 2002 Committee member for George Terzakis (Indiana State University, MS Industrial Technology - Major Project). *Development of a Mobile Robotic System Performing Spatial Inspection and Mapping.*

SERVICE / COMMITTEES / VOLUNTEER WORK

2024	College Graduate Student Coordinator.
2018	Working with Sheffield Career and Technology Center (Memphis vocational high school) and their Transportation, Distribution and Logistics program providing technical advice/support and program development assistance. Helped to develop AIDC based equipment solicitations (received commitments by Avery Dennison, Alien Technology and Seagull Scientific to-date).
2017-2020	IEEE CRFID Educational Mega-Challenge Chairman.
2018	AIM REG Committee Chairman.
2014-Present	AIM REG Committee. This workgroup is responsible for drafting responses to the various issues the develop in the RFID arena.
2014-Present	RFID Journal Live, Ask the Experts volunteer. This booth is included as a service to the industry by acknowledged experts (via invite by the RFID Professionals Institute) in the industry to help conference and show floor attendees with vendor and RFID technology agnostic advice.
2012-Present	AIM UDI Committee. This workgroup is responsible for drafting responses to the Food and Drug Administration's (FDA) new unique device identification ruling.
2011-Present	AIM Internet of Things Committee. This group is responsible for the development of AIM's position and white papers in the area of the Internet of Things. Chair, 2015.
2009-Present	GS1 Bar Code Identification Technical Group. This group provides independent technical advice back into GS1 on bar code matters.
2010-Present	AIM Technical Symbolology Committee (TSC). This group provides independent technical advice back into AIM on bar code symbolology matters. Chair, 2014.
2009-Present	RFID Journal Live Awards Judge. Member of the panels for "Best Use of RFID to Enhance a Product or Service" and "Best Thesis".
2006-2013	Ohio University Russ College Computer Security Council. As the department's member of the computer security council, I am responsible for helping to make recommendation on computer issues for the college.
2006	OU District Science Day Judge. Participated in the annual science fair that Ohio University hosts as an Engineering and Technology judge.
2005-2011	Ohio University Russ College Co-Op committee. As the department's member of the Co-Op committee, advising of all Co-Op students becomes a part of my advising load.
2005	Dream It-Do It Expo 2005 Planning Committee. As part of the National Association of Manufacturer's Dream It-Do It campaign, the 2005 Expo was a career recruitment event that targeted high schools in the Kansas City area. I was one of two representatives from Central Missouri State University. My

responsibilities included vendor solicitation and automation development for the Expo.

- 2004-2005 College of Applied Science and Technology Curriculum Committee. This is the college curriculum level committee that determines the appropriateness of courses and programs with the University mission and goals, the quality of courses and programs, overlapping interests, duplicate offerings and the proliferation of courses and programs and the impact on students and their educational goals.
- 2004- 2005 Faculty Senate Distance Education Committee. The function of the committee is to provide input regarding the development, initiation and maintenance of distance education efforts for the University. Membership is based on confirmation by the Faculty Senate.
- 2004- 2005 Central Missouri State University Information Technology Policy Council. The Council serves at the behest of the President to develop, recommend, and review policies regarding the acquisition, distribution, use, and maintenance of information technology, and recommend university priorities which are consistent with those policies. Membership is based on recommendations by the Faculty Senate and appointment by the President.
- 2002-2003 Major Project Committee member for the Master of Science program. I was one of three committee members for various final projects that were conducted in the computer integrated manufacturing lab at Indiana State University. Project topics included mobile robots, PLCs and bar coding.
- 2002 Volunteer Volleyball Coach – I was the assistant coach for the girls 15-2's and 17-2's Crossroads Volleyball Club, and the Terre Haute South Junior Varsity volleyball team.
- 2001 Light House Mission, Inc. – I worked with the administrative staff on the development and implementation of an inventory control and point of sale system for the Mission.
- 2000-2003 Indiana State University Microlab Committee. Participated as the School of Technology representative on the committee. The committee is responsible for investigating and advising on microcomputer issues for campus.
- 1995-1996 Academic Computing Advisory Committee for Indiana State University. Participated as a graduate student representative.
- 1993, 1989 Boy Scouts of America. – National Jamboree Volunteer, assistant scoutmaster.
- 1988-1990 West Essex Volunteer First Aid Squad (New Jersey). – Riding junior member.

MISCELLANEOUS

- Professional Associations IEEE- Member at large, CRFID member. Epsilon Pi Tau (member-at-large), Society for Manufacturing Engineers (CMfgT – last renewed January 2004), National Association of Industrial Technology, Association for Information Systems, GS1-GO, Association for Automatic Identification and Mobility (AIM Global), International Association for Computer Information Systems

Computer Skills	AutoCAD, Allen Bradley PLC ladder logic, RSView32 Works, SQL Server, bar coding, radio frequency data collection, Mitsubishi robotic programming language, Yamaha robotic programming language, V+ (Adept robot language), Karel (robotic programming language), Keyence Vision Systems, .NET (Visual Basic & C#) development for desktops, PocketPC/CE devices and Windows Phone 7 devices, Windows XP\Server2003\Win7 administration, Microsoft Office products and UNIX, CompTIA RFID+ certified.
Hobbies/ Activities	Computer programming, sailing, photography, recreational cycling, Boy Scouts of America (Eagle Scout).