



## Angela F. Kern

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# Curriculum Vitae

## Education

### Pennsylvania State University – State College, PA

**M.Ed.** Workforce Education & Development. May 2014 Research interests – CTE & Special Need Population Employment Outcomes; Educational Leadership.

- **Vocational Director / Principal / Supervisor Certification** – August 2012 Pennsylvania Department of Education (PDE)
- **Vocational II Permanent Certification** – 11.0901 Computer Systems Networking and 15.1202 Computer System Servicing – Received April 2012 (PDE)
- **Cooperative Education Coordinator** - Received April 2012 (PDE)



### York College - York, PA

**M.B.A.** in Information Technology - May 1998



### Millersville University - Millersville, PA

**B.S.** Business Administration & Computer Science, December 1986



## Papers and Presentations

- Presenter at PACTEC Conference (June 2016) – *Modifying CTE Curriculum for Students with Exceptionalities.*
- Presenter at PACTA summer Leadership Conference (July 2015). *Principal Effectiveness. Establishing correlation data using teacher evaluation domain criteria scores to ascertain professional development needs.* Angel Kern, Mary Rodman, presenters. Nittany Lion Inn, State College, PA.
- Presenter at ACTER (Association Career Technical Education Research) November 27, 2012. *Income from wages and salaries by special education classification and school program.* Kern, A.F., & Passmore, D.L. (Paper published in conference proceedings.)
- Jeon, K.S., Kern, A.F., & Passmore, D.L. (2010, June). *Employment Status: The Relative Impact of Race, Gender, High School Curriculum, and Special Need Classification.* University Park, Pennsylvania: Institute for Research in Training and Development. (Available from Social Science Research Network: <http://ssrn.com/abstract=1628154>)
- Presenter at PACTEC 2010 (Pennsylvania Career and Technical Education Conference), Lancaster, PA. *Employment Status: The Relative Impact of Race, Gender, High School Curriculum, and Special Need Classification.*

## Key Projects and Achievements

- NOCTI National Board of Trustees member. Appointed January 2015. Term End January 2019.
- Led efforts to develop teacher / course content delivery websites using WIX.com
- Developed Learning Management System (LMS) content (Moodle, Canvas, Blackboard, Populi)
- Spearheaded pilot project of Google Educator / Google Classroom LMS system implementation.
- Established New Teacher Induction / Professional Development goals for Comprehensive Plan.
- Managed project to write Comprehensive (strategic) Plan and enter into PDE CompPlan system.
- Established Lesson Planning / Learning Guide system using [www.guides4learning.com](http://www.guides4learning.com)
- Successfully organized and completed Chapter 339, Nurse Aide and various other PA Dept Ed audits
- Established new CTE programs including leading committee to evaluate new potential programs through implementation of new CTE programs (Landscape Design & Construction, Health Science, CompTIA A+ Computer Repair, Admin Assistant, and Service Occupations.)
- Established IT and health career course rotation sequence for high school CTE students
- Served on the NOCTI exam rewrite committees for both CIP 11.0901 and 15.1202 (networking, repair)
- Served on the committee to rewrite the new MIS CIP Code 52.1202 standards and test questions
- Tested Teacher NOCTI tests and helped create cut scores for both teachers and students
- Served as Pennsylvania Skills USA Internetworking competition chair for five years 2008-12
- Implemented TSA (Technical Student Association) at YCST with colleague

- Served as Engineering / Construction Academy Leader at York County School Technology
- Implemented project management philosophy in education, leadership and management roles.
- Negotiated maintenance contracts resulting in a 25% decrease in technology maintenance costs
- Directed the design and installation of a \$2 million LAN/WAN infrastructure
- Wrote business continuity plans, established DR site and conducted disaster recovery tests
- Selected cost effective and highly secure firewall, intrusion defense and security solutions
- Organized an Incident Response Team; wrote and promoted security policies and procedures
- Organized and implemented Technology Steering & Horizon Steering Committees
- Successful cultivator of high performing teams using project management discipline

## *Professional Experience*

### **Information Systems Security Analyst**

TEK Systems (Contracted to Armstrong Ceilings) - Marietta, PA

Nov, Dec, 2018

Provide Level 3 security / incident support. Engineer security response playbooks. Monitor Splunk-ES anomaly detection system. Research and report on suspected security incidents. Monitor and communicate daily security posture of the organization. Conduct vulnerability scans using Rapid7 Nexpose. Assigned to project to develop risk analysis and prioritization program. Using NIST Cybersecurity Framework to provide security metrics.

### **Corporate Faculty**

Harrisburg University of Science & Technology - Harrisburg, PA

February 2018 - present

Prepare curriculum and teach secondary, undergraduate and graduate courses including CISC 661 - Cybersecurity / Cyberwarfare; CISC 320 Computer Forensics; CISSP / CISA Exam Professional Education courses. Also helped establish the Nupaths, LLC pilot high school - IT Fundamentals, CompTIA A+/Net+ courses. Developed learning management system content with interactive instructional technology materials

### **Director of Secondary Education**

Berks Career & Technology Center - Leesport, PA

June 2017 - February 2018

Lead curriculum delivery and technology integration initiatives at a career technical high school of 1900 students and 225 staff. Supervise systems delivery including Microsoft 365, Classmate Student Information System, Schoology LMS, PA Department of Education (PDESuite) online systems and reporting (PIMS). Spearhead School Improvement process, Middle States, and ISO 9015 certification via continuous improvement model and extensive data review. Supervise audits and program certifications using COBIT risk analysis model. Manage IT to NIST and ISO 27001 standards. Responsible for all compliance activities including FERPA, HIPAA and Children's Internet Protection Act.

### **Part-time Instructor**

Penn State Great Valley

Sept 2016 - present

Designed, prepared and teach CISSP (Certified Information Systems Security Professional) Exam Prep course for Professional Development program. The course exposes the student to the eight (8) domains of knowledge required to pass the CISSP exam.

### **Assistant Director**

Central Monto Technical High School - Plymouth Meeting, PA

August 2012 - July 2017

Responsible for day-to-day operation of a career technical high school including curriculum and instruction, discipline and development / evaluation of professional staff and instructional aides. Served as TAP / TSTW PDE program director and NOCTI coordinator. Supervise PDE / BCTE Chapter 339 audit, nursing assistant program PA state audit and NATEF (automotive program) recertification. Managed Comprehensive Planning from establishing work committees through final approval with PDE.

### **Educator, Computer Networking Teacher**

York County School of Technology - York, PA

Aug 2006 - Aug 2012

Responsible for CompTIA A+, Network+, Security+, Cisco CCNA, and IT Essentials training programs. Made major changes and updates to the curriculum and succeeded in getting local businesses to donate equipment and time in support of the school's mission to train young adults to enter the workforce.

### **Information Security Analyst**

PHEAA - Harrisburg, PA

Summer 2011

Summer contract position to assist with stalled projects within the Information Security Department at the Pennsylvania Higher Education Assistance Agency. Completed project to force encryption of all USB and CD / DVD media attached any device within the company, using TrendMicro Endpoint Encryption Software. Facilitated security log consolidation & automated reporting project using scripting tools and GFI Langard databases.

### **Adjunct Professor**

Pennsylvania State University (York Campus)

January - May 2009

Teach Management Information System to business majors. Goal of course is increase computer literacy in the area of spreadsheet and database creation and usage.

**Vice President Technical Support Services, IT Operations Manager**

Sterling Financial Corporation - Lancaster, PA

May 2005 – April 2006

- Supervised direct staff of 35 and indirectly, 80 IT staff members.
- Maintain operations according to GLB and Sarbane-Oxley laws and regulations
- Achieved satisfactory audit ratings with no significant material deficiencies.
- Responsible for Technology Committee Updates and Board of Director presentations
- Implemented project management, change management and security procedures.
- Managed project to lock down security via Active Directory according to COBIT standards.
- Planned and implemented migration from Novell Groupwise to Microsoft Exchange 2003
- Served as Project Manager/architect of a \$1.5M Nortel/Cisco IP Telephony project in 75 offices.
- Established an "IT by Project Management" discipline and eliminated accountability issues
- Led efforts to select managed services, implemented 24x7 intrusion defense and monitoring
- 24x7x365 responsibility for all network, hardware, security and telecommunication systems

**Vice President, Information Technology,**

PeoplesBank, A Codorus Valley Company - York, PA

April 1999 – May 2005

Recruited and assembled staff to upgrade and replace obsolete technologies at a fourteen branch community bank and financial services company. Selected vendors, negotiated contracts and implemented systems such as internet banking, commercial cash management services, ACH origination, teller automation, item processing and check imaging systems. Responsible for information security and privacy. Conducted audits, penetration tests and evaluated security posture. Negotiated IT contracts. Served as chair of the Bank's Technology Steering Committee.

**Senior Programmer Analyst / Project Manager**

York Health System / Wellspan Health – York, PA

Sept 1998 - April 1999

Managed hospital Patient billing and Accounting System (COMPAS). Served as configuration manager for Radiation/Oncology patient management system (RADONC – VAX IDML DB). Led projects to select package system replacements for in-house written software applications. Documented business processes and data structures. Assisted IS & hospital management with writing RFPs and selecting vendors. Hands-on experience with Cerner Patient Management and Lawson Financial Management. Knowledge of HIPAA, ISO17799 and medical coding/terminology. Programmed in SQL & VAX IDML.

**Systems Analyst / Project Manager**

AMP Incorporated, Inc. - Harrisburg, PA

June 1997 – Sept 1998

Led project team of five analysts and programmers. Responsible for the design and development of client/server workgroup solutions by applying tools and technology to a set of requirements. Gathered and documented user requirements. Worked with infrastructure teams to determine security requirements. Responsible for SAP interface support to legacy systems, Siebel Sales Enterprise / VB configuration effort, including repository management. Trained in Oracle PL/SQL to write interfaces from/to legacy systems. This assignment ended abruptly due to hostile takeover by Tyco and massive IT layoffs.

**Contract Systems Consultant / Developer**

PLM Consulting, Inc. - Wilmington, DE

April 1997 – June 1997

Spent the summer of '97 working for the premier DataEase RDBMS consulting company on the east coast. Managed existing and developed new business relationships. Responsible for the customization, maintenance and support of the New Jersey Municipality software modules. Designed and coded extensively with the DataEase Relational Database Management System. Temporary consulting position while earning MBA.

**I.T. Systems Administrator**

Heffner Funeral Homes, Inc. – York, PA

Oct 1994 – April 1997

Responsible for all computer related activities including network administration (Novell Netware), hardware, software, budgeting, support, and end-user training. Designed and implemented a Microsoft based WAN connecting 12 remote sites in New York and Pennsylvania to corporate headquarters. Custom designed and wrote financial accounting database system for multi-funeral home organization.