

## SECURITY CENTRIC AND DATE LIMITED CURRICULUM VITAE

Allan C. Roth, PhD, CISSP  
2008

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### EMPLOYMENT

Instructor Computer Science University of Illinois at Springfield Springfield, Illinois	Fall 2005- present
Director of Information Systems Prairie Cardiovascular Consultants, Ltd 43 Physician Group Practice Springfield, IL	2000–2005
Adjunct Lecturer (Resident and Online) Computer Science University of Illinois at Springfield Springfield, Illinois	1999-2005
Management Information System and Database Administrator and Online Training Development Governors State University on Contract to: Illinois, Dept of Children and Family Services Springfield, IL	1999- June 2000
Part Time Faculty MIS, Networking, and Health Information Robert Morris College Springfield, Illinois	1999-2000
Post Doctoral Informatics Fellow Department Health Management and Informatics University of Missouri Health Science Center Columbia, Missouri	1997-1999

**EDUCATION  
CERTIFICATION:**

Certified Information System Security Professional (CISSP)	International Information System Security Certification Consortium (ISC) <sup>2</sup> Shrewsbury, MA	December 1999 2 <sup>nd</sup> Renewal 2004, 2008
Ph.D.	Iowa State University Biomedical Engineering Zoology (Physiology)	1974 - 1977
M.S.	Iowa State University Biomedical Engineering	1972 - 1974
B.S.	Iowa State University Aerospace Engineering	1964 - 1969

**OTHER EDUCATION**

CISCO Security BootCamp CSUSB	August 2006
Computer Forensics II Course CSSIA Madison Area Technical College	April 2006
HIPAA and the Information Security and Privacy Officer training (Invited by HIMSS to Critique)	March 2001
Visual Basic (Beginning and Intermediate) University of Missouri-St. Louis Extension	Spring 1999
Administration of Health Care Organizations, Dept. of Health Management and Informatics, University of Missouri-Columbia	Fall 1997

**POST DOCTORAL  
TRAINING**

NIH, NLM Postdoctoral Fellowship Medical Informatics and Information Security Research University of Missouri Health Science Center Columbia, Missouri	1997-1999
Research Associate Eric Feigl, M.D. (Mentor) Department of Physiology and Biophysics School of Medicine University of Washington Seattle, Washington	1977-1980

*Teaching and Distance Education Experience*

Instructor University of Illinois at Springfield

Spring 2008 Developed and taught online CSC 470 Threat Management and Disaster Recover

Fall 2007 Developed and taught online CSC 470 Information Security Policy

Spring 2007 Developed and taught on campus and online CSC 438 Systems Security and Information Assurance Capstone

Fall 2005 Developed and taught CSC 433 Intrusion Detection which was taught online beginning Spring 2006

Spring 2000, 2001, 2002 and Fall 2001-2005 Computer Science CSC 582 Online.

Fall 1999 Computer Science CSC 570 Advance Topics in Interface design.

Instructor Robert Morris College

Summer 1999 Health Info Technology and Novell Networking

Fall 1999 Management Information Systems

Instructor University of Missouri

Sept 1998 (in charge of off-campus learning and Internet discussions) fall 98 course entitled "Design and Management of Healthcare Information Systems" for health care executive students in Health Management and Informatics Department

Team taught Information in System Security Class

*Committee Experience*

Curriculum Committee, University of Illinois at Springfield, Computer Science Department, 2006-2007

HIPAA Security Steering Committee Prairie Cardiovascular Consultants, LTD, HIPAA Chief Information Security Officer 2003-2005

Member of the SIU School of Medicine Information Management Policy Committee. (IMPC), Jan 1996-1997.

Health Care Technology Policy Committee, IEEE-USA, 1994- 1996

Member of the SIU School of Medicine Information Management Technical Advisory Group (IMTAG), 1990-1997.

*Information Systems Activities*

**Prairie Cardiovascular Consultants.**

Director of Information Systems, Information Security Officer and HIPAA implementation Committee member.

Started IS department and moved to implement Windows NT/2000 domain, Setting up Active Directory, MS Exchange e-mail system, Citrix servers for low bandwidth applications, Server Farms for our medical applications, Intranet, VPN connection to offices in Southern Illinois, Wireless applications using pen tablets for our electronic medical record, implemented digital Echo System, Database administrator MS SQL Server 2000, accomplished Crystal Reports Designer.

### **International Information System Security Certification Consortium (ISC)<sup>2</sup>**

Certified as an Information System Security Professional (CISSP) January 1999. Renewed Certification for three years in 2001 renewed in 2004 and 2008.

### **Governors State University**

Database administrator

### **University of Missouri-Columbia**

Prototyped On-line Information System Security course. 1998

Developed Web-based problem wound database for distance consultation, 1998

Worked on intelligent agents for Audit Trail Analysis of the STAR health information system 1999

University of Missouri Hospital Information System Implementation. This is a conversion to Online Reporting and Billing System (PCC online, a partnership of Cerner Corporation, IDX corporation, and First Consulting Group), August 1997-1999.

Interface strategy task force-maintaining uniformity of protocols to HL7 for connection to PCC-Online.

#### **Powerchart and Open Clinical Foundation-OCF (data repository group)**

HL7 segment definitions for existing ADT systems feeding to the OCF

Rollout planning and task management for Powerchart application.

#### **Security working-group**

Security policy for pilots and rollout-IDX and Cerner applications

Determine security levels for new users of IDX and Cerner applications

### **Southern Illinois University School of Medicine**

Member of the SIU School of Medicine Information Management Policy Committee. (IMPC), Jan 1996-1997.

National Health Care Technology Policy Committee, IEEE-USA, 1994- present.

Computerized Patient Record Subcommittee 1994.

System Administrator, Information System, Institute for Plastic and Reconstructive Surgery, 1993-1997.

Member of the SIU School of Medicine Information Management Technical Advisory Group (IMTAG), 1990-1997.

E-mail subcommittee 1994 (Novell Groupwise to replace Profs)

Internet and LAN Security subcommittee -1995

Databases: MS SQL Server, Filemaker Pro, MS Access, Oracle,

Ethernet Hardware and cabling and fiber connections.

Network protocols: IPX, Appletalk, TCP/IP. Wireless 802.11b

Hardware upgrades for Intel and Motorola based PC's including microprocessor upgrades, CD-ROM upgrades, disk upgrades, and memory upgrades.

Biomedical Instrumentation with computer interface design.

## MEMBERSHIPS

Infragard Security Organization	2005-
Health Information Management Systems Society	2000-
American Medical Informatics Association	1997-2000

## Publications: Journal Articles:

Author or co-author of more than 35 peer-reviewed articles. Publication list furnished on request.

### **Selected Information Security Articles**

- 1) Asaro PV, Herting RL, Roth AC, Barnes MR: Effective Audit Trails – A Taxonomy For Determination of Information Requirements. Proc AMIA Annu Fall Symp. Accepted for Publication 1999.
- 2) Herting RL, Asaro PV, Roth AC, Barnes MR: Using external data sources to improve audit trail analysis. Proc AMIA Annu Fall Symp. Accepted for Publication 1999.