



Holly Yuan, PH.D.

Email: yuanh@uwstout.edu

Cell: 715-2321697

Education

Ph.D. Degree in Computer Information System 2011
Nova Southeastern University

Master of Science Degree in Computer Science 2003
Georgia State University

Licences & Certifications

ISACA CISM	ISACA Certified Information Security Manager
EC-Council CEH	Certified Ethical Hacker
EC-Council	Certified Ethical Hacker Instructor
CCNP-Security	Cisco Certified Network Professional Security
CISP	Cisco Information Security Specialist
CIPSS	Cisco IPS Specialist
CCIE R&S	Cisco Certified Internetwork Expert
CCNP	Cisco Certified Network Professional
CCNA	Cisco Certified Network Associate
CCNA-Voice	Cisco Certified Network Associate Voice
CCNA-Security	Cisco Certified Network Associate Security
CompTIA	A+
CompTIA	Linux+
VMWare	VCA6-DCV
Microsoft	Microsoft Certified Professional
CCAI	Cisco Certified Academy Instructor

Professional Experience

University of Wisconsin – Stout, Information Technology Management, 2007- present
Program Director, Associate Professor

- Teach undergraduate and graduate classes, including
 - CNIT 133- Networking Fundamentals I

- CNIT 134- Networking Fundamentals II
- CNIT 441-CCNP Route
- CNIT 443- CNNP Switch
- CNIT362- MCSA Server Application
- CNIT 363- MCSA Active Directory
- CNIT 300- Various Topic in IT Emerging Technology
- CNIT 330- CCNA Voice, IP Telephony Design & Implementation
- CNIT 391- CCNA Wireless
- CNIT 382- Network Design
- CNIT 484- Advanced Security & Auditing
- CNIT 490- ITM Capstone
- Design and develop hands-on IT laboratory and curriculum
- Update the program plan and keep it rigorous based on the advisory board recommendations
- Design, develop and deliver new IT courses based on the advisory board recommendations
- Advise students on academic plan and course selection
- Conduct regular program meetings
- Develop and maintain strong relationship with the local IT industry

Security & Training Consultant, clients include:

- Fairmont hospital
- Louisiana department
- US military at various bases overseas and cross the country
- etc.

Program Director, IT Program, Fairmont State University, 2003-2017

- Teach undergraduate and graduate students face to face and online classes including: Security, Programming, Information System, Linux, and Computer Networking
- Facilitate and engage in online discussion forum
- Recruit and coordinate qualified adjunct faculty for over 30 sessions of IT courses

Computer Science Teaching Assistant, University of Georgia State,

- teaching, grading, and developing Computer Programming Fundamentals courses such as Java, C++, HTML, CSS, & PHP.

IT Manager/Supervisor/Data Processor, Trans world Information Processing Co.

- Plan, develop and implantation of security policies and procedures
- Design, implementation, and support of LAN
- User support, upgrades, maintenance and troubleshooting systems
- Training end users

Publications

BOOK CHAPTER (Peer-Reviewed):

1. Chapter 7: Carrying That Ten Thousand Dollar Lab in a Backpack-- A Mobile Networking Laboratory with the Use of Open Source Applications. *Open Source Mobile Learning: Mobile Linux Applications*, IGI Global, Hershey PA, USA. DOI: 10.4018/978-1-60960-613-8, ISBN13: 9781609606138, ISBN10: 1609606132, EISBN13: 9781609606145
2. Chapter 9: Developing a Private Cloud Based IP Telephony Laboratory and Curriculum. *Cloud Computing for Teaching and Learning: Strategies for Design and Implementation*, IGI Global, Hershey PA, USA. IGI Global. DOI:10.4018/978-1-4666-0957-0, ISBN13:9781466609570, ISBN10:1466609575, EISBN13:9781466609587.
3. Chapter 5: Designing, Developing and Evaluating a Cloud Based Laboratory for Online STEM IT Students. *Cloud-Based STEM Education for Improved Learning Outcomes*. IGI

Global, Hershey PA, USA.

SBN13: 9781466699243/ISBN10: 1466699248/EISBN13: 9781466699250

CONFERENCE PAPER (Peer-Reviewed)

1. Building a Cisco-feel Linux Router to Enable Students to Learn and Configure Dynamic Routing Protocols. *ACM Special Interest Group on Information Technology Education (SIGITE) 2007 Conference*, San Destin, Florida.
2. Using Open Source Software to Create an Open Network Laboratory for the IT Curriculum. *ACM Special Interest Group on Computer Science Education (SIGCSE) 2008 Conference*, Portland, OR.
3. Designing a Comprehensive Open Network Laboratory Courseware. *Consortium for Computing Sciences in Colleges 2008 Conference*, Rocky Mountain, CO.
4. Anatomy of Denial of Service Attack and Defense in a Lab Environment: A Case Study. *23 Annual Computer Security Application Conferences (ACSAC)*, Miami, FL, 2008.
5. A Lab Implementation of SYN Flood Attack and Defense. *ACM Special Interest Group on Information Technology Education (SIGITE) 2008 Conference*, Cincinnati, OH.
6. An Instructional Design of Open Source Network Laboratory and Curriculum. *ACM Special Interest Group on Information Technology Education (SIGITE) 2009 Conference*, Fairfax, VA.
7. Design and Implement a Networking Curriculum in Light of ACM IT Curriculum Recommendations and Bloom's Taxonomy. *ACM SIGITE 2010 Conference*, Midland, MI.
8. Developing and Evaluating a Network Curriculum to Meet ABET Accreditation and IT Industry Needs. *Consortium for Computing Sciences in Colleges 2010 Conference*, Atlanta, GA.
9. Developing and Evaluating a Mobile Networking Laboratory and Curriculum for Long Distance e-Learning Students. *World Conference on Educational Multimedia, Hypermedia & Telecommunications*, Lisbon, Portugal, 2011.
10. Developing IP Telephony Laboratory and Curriculum with Private Cloud Computing. *ACM SIGITE 2011 Conference*, West Point Academy, NY.
11. Developing a Green IT Laboratory and Curriculum with Cluster Virtualization. *Consortium for Computing Sciences in Colleges 2013 Conference*, Loudonville, NY.
12. Using Outcome based learning assessment to evaluate and improve the hands-on networking course. *Journal of Computing Sciences in Colleges*, Volume 29 Issue 2, December 2013.
13. Evaluating and Using Cloud Computing for Online Hands-on Learning. *Consortium for Computing Sciences in Colleges 2014 Conference*, Northbridge, CA.
14. Developing a Hands-on Cybersecurity Laboratory with Virtualization. *Consortium for Computing Sciences in Colleges 2017 Conference*, Lincoln, NE.

Grants

Grant: NASA Space Grant Consortium

Research Title: *Building a Self-defending Network for Small to Medium Size Companies*

Funding Level: \$12,000

Grant Title: National Science Foundation

Research Title: *Expanding Pathways for Educational Development and Information Technology (ExPEDITe)*

Funding Level: \$100,000

Professional Affiliations & Honors

- Faculty Advisory of AITP UW Stout Student Organization
- A member of ACM, IEEE, ISACA
- Recipient of Women in Cybersecurity 2017 (**WiCyS**) Scholarship