BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
John Sands	Department Chair/Professor Computer Integrated Technologies (CIT)
sands@morainevalley.edu	

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Colorado State University	Ph.D.	05/08	Education
Governors State University	M.A.	05/01	Human Performance and Testing
Chicago State University	BA	05/92	Communications

Personal Statement

John Sands has over 30 years of experience in education and workforce research in the areas of data communications, manufacturing technologies, information technology, information security management and cybersecurity. He currently serves as the department chair and professor of information technology at Moraine Valley Community College. John also serves as the Principal Investigator/Executive Director of the Center for Systems Security and Information Assurance (CSSIA), an NSF/ATE National Support Center. John's team has studied the technology workforce needs both in the local Chicago metropolitan region and nationally as the Principal Investigator of CSSIA. He holds a Ph.D. from Colorado State University and several industry certifications.

As a department chair, full time faculty member, and academic researcher, he has developed and taught numerous online technology courses using an integrated virtual teaching and learning environment. Dr. Sands has served as the executive director of one of the most successful Cisco System - Networking Academy Training Centers in the country. John also possesses a very strong background in developing and implementing online curriculum for both students and faculty and has been the recipient of several awards in the area of innovation and teaching. Professor Sands also has received several academic awards including the Master Teacher of the Year, Innovator of the Year and the Career Pathways Partnership Excellence Award - Best Dual Credit Program.

Positions and Honors

Department Chair Computer Integrated Technology (CIT) Department (1996-Present)

Department Certificates Programs:
Computer Technician; LAN Technician; Network Administrator; Microsoft Associate; Cisco Network Associate; Cisco Network Professional; Mechanical Drafting Associate; Autodesk Inventor Specialist; AutoCAD Specialist; Architectural CAD; Mechanical and Fluid Power Maintenance; Fluid Power Technician; Electronics Technician; Electronic Controls Technician; Industrial Controls Technician; PLC Technician; Mechanical Drive Technician; Industrial Maintenance Technician; Manufacturing Intern; Plant Engineering Mechanic; Computer Support Associate; Network Security Associate; Network Security Specialist;

Department Associate of Applied Sciences (A.A.S.) Degree Programs:
Computer and LAN Tech; IT Security Specialist; Voice and Data Specialist; Mechanical Design Technology; Mechatronics Technology; Electronic Computer Controls Tech; Integrated Systems Technology; Computer Graphics Imagery

Responsibilities:
- Managed the submission and approval process for college AAS degree and certificate programs.
- Classroom instruction; curriculum development, instructional materials and classroom evaluation
- Manage department schedules, budgets, faculty hiring, articulation programs and program evaluation and accreditation processes.

Grant Management and Researcher (1996-Present)

- Principle Investigator for the Center for Systems Security and Information Assurance (CSSIA) NSF Award #1465163
- Established the CSSIA National Faculty Development Training Academy
- Co-Designed the CSSIA Virtual teaching and Learning Environment
- Principle Investigator for the Scholarship for Service (CyberCorp) Capacity Building Grant Award #1623591 National Science Foundation
- Principle Investigator for the CAE National Security Agency Award: H98230-16-1-0347
- Principle Investigator for the Cybersecurity National Action Plan Investment and Expansion of CAE-C Programs (CNAP) National Security Agency Award: S-004-2017
- Principle Investigator for the National K-12 Career and Technical Education Programs of Study Award: H9230-17-1-0436 National Security Agency Award # S-004-2017
- Co-Principle Investigator for the GenCyber Award # H98230-17-1-0254
- Principle Investigator for the Scholarship for Service (CyberCorp) Capacity Building at Purdue University Northwest Grant Award #1754090-DGE SubAward# 4101-84307 National Science Foundation

Organizational Researcher for Cisco Learning Institute (2008-2010)

Responsibilities:

- Studied teaching and learning strategies, trends and challenges faced by the Cisco Networking Academy community
- Studied the changing information technology workforce needs and requirements
- Studied student performance metrics in an effort to improve classroom methods, instructional materials, teaching tools, assessment instruments and employability

Director – Cisco Area Training Center (1998-2012)

Responsibilities

- Served as Cisco System Network Academy Program training provider and Quality Assurance Partner in Illinois
- Provided technical and academic assistance to all Cisco Academies in the Midwest region
- Served as one of five CATC's in Wireless Technologies, Network Security and CCNP Programs
- Developed evaluation and assessment reports for Cisco Area Account Manager in the Midwest
- Served as the lead instructor for faculty development and instructor certification classes

Other Positions or Research

Responsibilities

- Adjunct faculty member Northwestern University Information Security Management MA Program
- Served on the ISC^2 National Advisory Committee to review and update industry certifications
- Served as a curriculum developer and test writer for the Cisco Academy Program
- Served as the external evaluator for the University of Boise Information Technology Program
- Active Duty United States Navy, Gas Turbine Specialist

Academic Awards

- Moraine Valley Community College - Master Teacher (1998)
- Moraine Valley Community College - Innovator of the Year (1990) (1999) (2005)

Information Technology Certifications

- Certified Cisco Network Professional CCNP, Cisco Certified Academy Instructor CCAI (Routing & Switching)
- Microsoft Certified Systems Engineer MCSE
- CompTIA A+, Network+, Security+
- Certified Information System Security Professional (CISSP)