

## **BIOGRAPHY**

### **Thomas B. Martin, Ph.D.**

**Title:** Professor of Computer Science

**Education:**

University of Pennsylvania Ph.D. (Electrical Engineering & Computer Science)  
University of Pennsylvania M.S.E.E. (Electrical Engineering & Computer Science)  
University of Notre Dame B.S.E.E. (Electrical Engineering)

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**Courses Taught:**

<b>Undergraduate Courses Taught</b>	<b>Graduate Courses Taught</b>
Introduction to Computers	Information Systems Management
Computer Applications	Computer Networks & the Internet
Information Security	Marketing & the Internet
Data Communications	Project Management
Computer Networks	Current Topics in Information Systems Management
Senior Seminar	Independent Study & Research
Cooperative Education I and II	
Project Management and Practice	

**Recent Publications/Presentations**

- Thomas B. Martin, “Information Systems: How Do You Teach a Moving Target?”, Villanova University Computer Science Colloquia Series, October 27, 2008.
- Thomas B. Martin, “The Future of Information Systems”, Innovative Technology Action Group, October 16, 2008
- Thomas B. Martin, “The Challenge of Cyberterrorism to HTCIA”, The Firewall, High Technology Crime Investigation Association, Summer 2007
- Thomas B. Martin, “The Challenge of Cyberterrorism”, MOSAIC, Vol. II, Number 2, Fall 2005

**Research Areas:**

- Overcoming the Challenge of Cyberterrorism
- High-tech Classrooms of the Future
- The Role of E-learning and Technology Today

## **Professional Experience**

- Former Chief Executive Officer and Division President of five high-technology companies, ranging from multi-billion dollar companies to startups and turnarounds.
- Founded and built first successful automatic speech recognition company in U.S. - conducted successful Initial Public Offering after two years in business.
- Over 50 papers published, 19 patents awarded.
- Received *College of Engineering Honor Award* in 1998 from the University of Notre Dame for Significant Contributions to the Advancement of Engineering
- Elected member of the Computer Industry Hall of Fame, 1983; received award from President Ronald Reagan “For pioneering the commercial applications of speech recognition”.
- Active Member of High Technology Crime Investigation Association. Membership in this organization is restricted to law enforcement officers, intelligence personnel, and professional individuals active in these areas
- Developed first real-time, continuous speech, speaker independent speech recognition system under research contract from the United States Postal Service.
- Principal Investigator for seven contracts under Air Force sponsorship for the development of a narrow-bandwidth communications system using both speech recognition and speech synthesis
- Principal Investigator on 16 government-sponsored research contracts
- Principal Investigator on contracts sponsored by every intelligence agency in the federal government
- Originator of unique method to recognize submarine signatures from magnetic anomaly signals, which led to development of successful airborne processor for the U. S. Navy
- Originator of a pattern recognition logic known as analog-threshold logic
- Developed capabilities for Defense Intelligence applications considered to be a major national resource by government intelligence agencies
- Co-Editor of IEEE Press Book: Automatic Speech & Speaker Recognition

## **Holy Family University**

- Chair of MIS Department, responsible for undergraduate and graduate programs in Information Systems
- Chair of Assessment Committee for School of Business Administration
- Member of Graduate Council, member of Cooperative Education Advisory Board, member of Faculty Recruiting Committee, and member of Long-term Contracts Committee.
- Awarded Ray Taylor Grant for Faculty Development.

## **Professional Society Activities**

- Senior Member of Institute of Electrical and Electronics Engineers (IEEE)
- Member of Computer Society
- Member of High Technology Crime Investigation Association
- Associate Member of Association of Certified Fraud Examiners
- Member of Computer Science Teachers Association

## **Career Affiliations**

Holy Family University, Philadelphia, PA, Professor, Chair of MIS Department (Current Position)  
SMT Consultants, Inc., Cinnaminson, NJ, Founder & CEO  
Stellcom Technology, Inc., San Diego, CA, Director Major Enterprise Consulting

Geac Computers, Inc., Tustin, CA, Division General Manager  
RAD Network Devices, Inc., Costa Mesa, CA, President & CEO  
ARC Electronic Associates, Inc., Cleveland, OH, President & CEO  
Dowty RFL Industries, Inc., Boonton, NJ, President & CEO  
AT &T Bell Telephone Laboratories, Murray Hill, NJ, Research Consultant  
Threshold Technology, Inc. Delran, NJ, Founder & CEO  
RCA Corporation, Manager, Signal Processing Group