

*Curriculum Vitae*

*Alfred C. Weaver*

**1. EDUCATION, EMPLOYMENT, AND PROFESSIONAL ACTIVITIES**

**1.1 Education:**

Ph. D. (computer science)	University of Illinois, 1976
M. S. (computer science)	University of Illinois, 1973
B. S. (engineering science)	University of Tennessee, 1971

**1.2 Professional Employment History**

University of Virginia, Charlottesville, Virginia

Director, Applied Research Institute, 2008--2013

Associate Director, Applied Research Institute, 2013--

Lucian Carr III Professor of Engineering and Applied Science, 2002--2004

Professor of Computer Science, 1992--

Associate Professor of Computer Science, 1983-92

Chairman, Department of Computer Science, 1984-85

Assistant Professor of Computer Science, 1977-1983

Virginia's Center for Innovative Technology, Herndon, VA

Program Consultant, 1996-97 (sabbatical)

NASA--Johnson Space Center, Houston, Texas

Computer scientist, August 1986--June 1987 (sabbatical)

Department of Computer Engineering, Lund University, Lund, Sweden

Visiting Associate Research Professor of Computer Science, May-June 1983

Technical University of Denmark, Lyngby, Denmark

Visiting Instructor, summer 1975

Department of Computer Science, University of Illinois, Urbana, Illinois

Graduate Teaching Assistant, 1971-1975

IBM Graduate Fellow in Computer Science, 1975-1976

Visiting Assistant Professor of Computer Science, 1976-1977

Tennessee Valley Authority, Knoxville, Tennessee

Engineer, Division of Research and Development, 1970-1971

Department of Computer Science, University of Tennessee, Knoxville, Tennessee

Undergraduate Teaching Assistant, 1969-1970

### 1.3 Consultant Positions

Sitara Networks, Inc. 1997-98  
Design of high-speed Internet access protocols

Infocus Communications, Inc. 1996-97  
Business plan development for web hosting services

MITRE Corporation, 1995  
Design review of Pentagon ATM Communications Systems

Institute for Defense Analyses, 1990-95  
Design of real-time distributed computing systems

Honeywell, Inc., Space Systems Division, 1990-91  
Design of high-performance network interface unit

Honeywell, Inc., Sensor and Systems Development Division, 1988-92  
Design of networked industrial automation systems

E-Systems, 1990-91  
Design of very high-speed computer networks

Federal Emergency Management Agency, 1990  
Computer network design for FEMA

Lockheed Engineering and Management Company, Houston, Texas, 1986-89  
Local area network design for the NASA space station

Johnson Controls, Inc., Milwaukee, Wisconsin, 1986-87  
Local area networks for building automation

Sperry Marine Inc., Charlottesville, Virginia, 1986--  
Shipboard local area network design

Johnson & Johnson, New Brunswick, New Jersey, 1983-84  
Industrial controls and computer networks

Dallas/Fort Worth Airport, 1982-83  
Microprocessor-based environmental controls

Reliance Oil Company, Charlottesville, Virginia, 1981-83  
Microcomputer-based financial management systems

Salley-Weissinger and Co., Charlottesville, Virginia, 1980-81  
Microcomputer-based financial management/analysis systems

General Electric Company, Charlottesville, Virginia, 1980-82  
Design of numerical and programmable controls

Struthers-Dunn, Inc., Bettendorf, Iowa, 1973-84  
Microprocessor-based industrial process controller design

### 1.4 Professional Activities

#### 1.4.1 Professional Societies and Activities

Institute of Electrical and Electronics Engineers (IEEE), 1973-- , Fellow 1996--

Association for Computing Machinery, 1974—

Editorial Board, *IEEE Computer*, 2006--

Associate Editor, *IEEE Transactions on Industrial Electronics*

Area editor (networks and electronic commerce), *IEEE Computer*

Column editor, "How Things Work," *IEEE Computer*

Phi Eta Sigma

Tau Beta Pi

Phi Kappa Phi

Sigma Xi

IEEE Industrial Electronics Society Administrative Committee

Vice-President, IEEE Industrial Electronics Society (IES), 1992-93

President, IEEE Industrial Electronics Society (IES), 1994-95

Chairman, IEEE IES Technical Committee on Factory Communication

U.S. Army Advisory Committee for Basic Research

Chairman, Intel 432 University Users Group

ACM (Association for Computing Machinery) National Lecturer

Member, CSNet Executive Committee

General Chairman, IEEE IES Workshop on Factory Communications, March 1987

Tutorial Chairman, IEEE IES IECON, 1983-1988

Program Committee, IEEE Workshop on Languages for Factory Automation, August 1987

Technical Program Committee, IEEE Workshop on Local Area Networks, October 1987

Technical Program Committee, 13th Local Computer Networks Conference, October 1988

Technical Program Committee, 14th Local Computer Networks Conference, October 1989

Technical Program Committee, 15th Local Computer Networks Conference, October 1990

Organizing Committee, 16th Local Computer Networks Conference, October 1991

Organizing Committee, 17th Local Computer Networks Conference, September 1992

Organizing Committee, 18th Local Computer Networks Conference, September 1993

Organizing Committee, 19th Local Computer Networks Conference, October 1994

Technical Program Chairman, IEEE IECON'89, Philadelphia, Pennsylvania, November 1989

Technical Program Chairman, IEEE IECON'90, Monterey, California, November 1990

Technical Program Co-Chairman, IEEE IECON'91, Kobe, Japan, November 1991

Technical Tours Chairman, IEEE IECON'92, San Diego, California, November 1992

Technical Tutorials Chairman, IEEE IECON'93, Maui, Hawaii, November 1993

Advisor, IEEE IECON'94, Bologna, Italy, September 1994.

Tutorials Chairman, IEEE IECON'95, Orlando, Florida, November 1995.

Technical Program Committee, IEEE IECON'96, Taipei, Taiwan

Treasurer, IEEE IECON'97, New Orleans, LA, November 1997

Technical Program Committee, Submissions Chairman for North and South America, IECON'98, Hamburg, Germany, November 1998

Technical Program Committee, International Workshop on Advanced Communications and Applications for High Speed Networks, March 1992

Vice-Chairman, Workshop on Emerging Technologies and Factory Automation, August 1992

Advisory Committee, Industrial Electronics Symposium, June 1993

Administration Chairman, ETFA'93 Emerging Technologies and Factory Automation, Cairns, Queensland, Australia, September 1993

Vice-Chairman, ETFA'94 Emerging Technologies and Faculty Automation, Tokyo, Japan, November 1994.

Technical Program Chairman, ETFA'95: Emerging Technologies and Factory Automation, Paris, France, October 1995.

Organizing Committee, IWACA'92: International Workshop on Advanced Communications and Applications of High Speed Networks, Munich, Germany, March 1992.

Organizing Committee, IWACA'94: International Workshop on High Speed Teleservices and Applications, Heidelberg, Germany, September 1994.

Advisor, ISIE'94: International Symposium on Industrial Electronics, Santiago, Chile, May 1994.

Advisor, ISIE'95: International Symposium on Industrial Electronics, Athens, Greece, July 1995.

Advisor, ICIT'94: International Conference on Industrial Technology, Guangzhou, China.

Steering Committee, ACCE: AFCEA Computing Conference and Exposition, Arlington, Virginia, February 1995.

Program Chairman, IEEE International Workshop on Factory Communications Systems, Leysin, Switzerland, October 1995.

Technical Program Committee, IEEE International Workshop on Emerging Technologies and Factory Communications, Paris, France, October 1995.

Co-Chairman, IEEE International Workshop on Factory Communications, Barcelona, Spain, September 1997.

Treasurer, IEEE IECON'97 International Conference on Industrial Electronics, Control, and Instrumentation, New Orleans, LA, November 10-14, 1997.

Program Chairman, IEEE IECON'98 International Conference on Industrial Electronics, Control, and Instrumentation, Aachen, Germany, November 1998.

Program Committee, IEEE International Conference on Industrial Electronics ICIE'98, People's Republic of China, 1998.

Program Co-Chair, Workshop on Factory Communications Systems WFCS'99, May 1999.

Steering Committee, 7th International Conference on Emerging Technologies and Factory Automation, October 18-22, 1999, Barcelona, Spain.

Technical Program Co-Chair, IEEE IECON'99 Industrial Electronics, Control, and Instrumentation, December 1999.

Co-organizer, A Totally Networked Industry Environment, special theme of IECON'99, December 1999.

Publicity Committee, IECON2000, Nagoya, Japan, October 2000.

Committee Chair, IEEE IES Industrial Information Technology Committee, 2001-2005.

Track Chair for Industrial Information Technology, IECON'03, Roanoke, Virginia, Nov. 2003

Organizer and Technical Program Chair, IEEE International Conference on Industrial Informatics (INDIN'03), Banff, Alberta, Canada, August 21-24, 2003

Organizer and Technical Program Co-Chair, IEEE International Conference on Industrial Informatics (INDIN'04), Berlin, Germany, June 24-26, 2004.

Industrial Electronics Society liaison to Workshop on Factory Communications, Vienna, Austria, September 2004.

Technical Program Co-Chair, Industrial Informatics track, IECON'05, Raleigh, NC, November 2005.

Technical Program Co-Chair, Industrial Informatics track, ICIT'05, Hong Kong, December 2005.

International Advisory Board, IECON 2008, Orlando, FL, November 2008.

Technical Program Committee, Wireless Health, San Diego, CA, October 2010.

International Advisory Committee, IECON 2010, Glendale, AZ, November 2010.

Technical Program Committee, International Workshop on Privacy, Security, and Trust for Mobile and Wireless Devices, Maui, HI, July 2011.

Technical Program Committee, 2<sup>nd</sup> International Workshop on Privacy, Security, and Trust in Mobile and Wireless Systems (MobiPST'12), Munich, Germany, July 30, 2012.

Session Chair, 21<sup>st</sup> International Conference on Computer Communications and Networks (ICCCN'12), Munich, Germany, July 30-August 2, 2012.

Technical Program Committee, 3<sup>rd</sup> International Workshop on Privacy, Security, and Trust in Mobile and Wireless Systems (MobiPST'13), Nassau, Bahamas, July 30, 2013.

Technical Program Committee, 2013 Frontiers in Education Conference, Oklahoma City, OK, October 23-29, 2013.

Technical Program Committee, 4<sup>th</sup> International Workshop on Privacy, Security, and Trust in Mobile and Wireless Systems (MobiPST'14), Shanghai, China, August 7, 2014.

Technical Program Committee, 2014 Frontiers in Education Conference, Madrid, Spain, October 22-25, 2014.

Technical Program Committee, 5<sup>th</sup> International Workshop on Privacy, Security, and Trust in Mobile and Wireless Systems (MobiPST'15), Las Vegas, NV, August 3-6, 2015.

### 1.4.2 Honors

Fellow of the IEEE, January 1996—

Life Member, IEEE, January 2015—

Keynote Speaker, "Providing Privacy and Security for Mobile Devices," International Workshop on Privacy, Security, and Trust for Mobile Devices (MobiPST'11), Maui, Hawaii, July 2011.

2008 School of Engineering and Applied Science Distinguished Service Award

IEEE Dr. Ing. Eugene Mittelmann Research Achievement Award, 2001.

Keynote speaker, "Achieving Data Privacy and Security Using Web Services," IEEE International Conference on Industrial Technology (ICIT'05), Hong Kong, December 2005.

Keynote speaker, "A Security Architecture for Distributed Data Security," IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'05), Catania, Sicily, Italy, September 2005.

Keynote Speaker, "Industrial Informatics," IEEE Industrial Electronics Society Annual Conference (IECON'03), Roanoke, VA, November 2003.

Distinguished Lecturer, IEEE Industrial Electronics Society, 1999--2005.

Keynote Speaker, "Electronic Commerce on the Internet," IEEE Industrial Electronics Annual Conference IECON'96, Kauai, Hawaii, December 1996.

IEEE Anthony J. Hornfeck Service Award, IEEE Industrial Electronics Society, 1992.

American Men and Women of Science, 1988--

### 1.4.3 Reviewer for Professional Journals and Research Proposals

Editorial Board Advisory Panel, *IEEE Computer*

Column editor, "How Things Work," *IEEE Computer*

Area Editor (networks and electronic commerce), *IEEE Computer*

Associate Editor, *World Wide Web Journal*

Associate Editor, *IEEE Transactions on Industrial Electronics*

*Journal of Internetworking Research and Experience*

*IEEE Computer*

*IEEE Spectrum*

*IEEE Transactions on Industrial and Process Control*

*IEEE Micro*

IEEE Robotics and Automation

ACM *Computing Reviews*

SOFTWARE - Practice & Experience

National Science Foundation

U. S. Army Research Office

Office of Naval Research

Virginia's Center for Innovative Technology

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