# Matthew E. Martini, PE

## EDUCATION

- **Cornell University, Ithaca, New York**
  School of Electrical Engineering
  Bachelor of Science, May 1987
  Dean's Honor List
  Course Concentration: Electrical and Digital Systems; Computer Engineering; Information, Communication, and Decision Theory; Electronic Circuit Design; Microprocessor Systems; Communication Arts, and Psychology.

## CERTIFICATIONS

- **Professional Engineer (PE) Certification**
  The University of the State of New York, State Education Department, August 1992

## AWARDS

- INC Magazine Fastest Growing Technology Company (#97), 2003
- Deloitte & Touche Nationally Fastest Growing Technology Company (#223), 2003
- Deloitte & Touche Long Island Fast 50 (Top 5); 2000, 2001, 2002, 2003
- Ernst & Young Entrepreneur of the Year Award, 2001
- Best Business to Consumer Website (BOLI) Award, 2002, 2003
- NYNEX Pride President's Circle of Excellence, 1993
- NYNEX Academic Achievement Award, 1992
- NYNEX Star of Excellence, 1992
- NYNEX Chairman's Award Finalist, 1991
- NYNEX Quality Improvement Team Award, 1990

## STANDARDS

- **Chairman, ISDN Conformance Testing Workgroup (ICOT)**
  North American ISDN Users' Forum
  Elected March 1990 - February 1992
  The ISDN Conformance Test (ICOT) WG is responsible for defining conformance requirements and Abstract Test Suites, as well as providing guidelines for interpreting the results of conformance tests.  Served on NIU Executive Steering Committee and IIW Executive Steering Committee of the North American ISDN Users' Forum.

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## PROFESSIONAL EXPERIENCE

- **Chief Technology Officer, Principal**
  Imaginary Wave Technology, LLC., Stony Brook, NY
  April 2008 - present
  As CTO of this Technology Consulting firm managed and implemented projects as diverse as Network Systems Architecture Design, Security Evaluation and Remediation, Database and Data Mining Optimization, SalesForce.com implementation and Customization, and web site development and SEO implementation.

- **Chief Technology Officer, Founding Partner**
  Invision.com, Inc.; Invision, LLC., Commack, NY
  July 1993 - October 2008
  As CTO of this ISP/Managed Service Provider, was responsible for overall network architecture design, implementation, and maintenance for internal as well as customer networks. Planned and realized world class Data Center facilities. Oversaw product development and managed the team responsible for Managed WAN Services including network design, Leased Line and Ethernet Internet connectivity, VPN solutions, VoIP, and remote monitoring. Designed and implemented Managed Hosting Services in our Data Centers. Managed the team responsible for shared virtual, Co-located, and Dedicated hosting, including System Administrators, email systems, Storage Area Networks and Disaster Recovery. Developed Security Strategy and managed the team responsible for Managed Security Services. This included managed firewalls, security plan development, vulnerability assessments and remediation, virus protection, and DDoS countermeasures. Developed and implemented procedures that were certified as SAS 70 Type II Compliant.

- **Member of Technical Staff**
  NYNEX Science & Technology, White Plains, NY
  April 1993 - July 1996
  As a Member of Technical Staff, planned and conducted research and applications development in various telecommunications technologies. Planned, designed, developed and implemented the Performance Monitoring and Analysis Manager (PMAM) to surveil the NYNEX Hi-Cap Transmission Network. Implemented the ATLAS automated transmission test-bed to control a testing environment via a remote graphical user interface. Installed deployments of ATLAS throughout the New York and New England regions.

- **Engineer**
  NYNEX Telesector Resources Group, New York, NY
  August 1987 - April 1993
  As a member of technical staff in the Technology Selection Product Engineering District, managed a variety of projects covering the spectrum of telecommunications and information transport applications and technologies. Responsible for the application and implementation of the product selection process including the determination of requirements, identification of suppliers, evaluation of vendor's proposals, evaluation/testing of products, and preparation of documentation supporting the selection of products and services. Formulated and prepared evaluation criteria including business and operational as well as technical performance criteria, determined of test procedures, and performed evaluations on transmission equipment including: Packet Switch Network Equipment, SS7 Protocol Devices, NMA Mediation Devices, Advanced Intelligent Network, SONET Transmission and Test Equipment, Passive Optical Network systems, Fiber in the Loop technologies, Asynchronous Transfer Mode Equipment, ISDN test equipment and CPE, DS-1 and DS-3 multiplexing equipment, network interfaces, testing equipment, Remote transmission measuring systems (RMU, small office test access), Video Teleconferencing equipment, Switched 56Kb/s equipment, Analog voice and data Transmission equipment (NCTE, DST), Intelligent DST, NCTE, Integrated Mass Announcement Switch interfaces. Located alternate sources of products. Identified new technology/products for which a market may exist, and determined how these products may impact the present and future network. Recommended the purchase of equipment for the engineering test center and was responsible for the implementation of testing procedures. Spearheaded the implementation of automated testing equipment and procedures.
  NYNEX Subject Matter Expert on DS-1 Interfaces and Network Channel Terminating Equipment (NCTE). Provided technical support in connection with NYNEX's purchasing and contracting activities. Acted as a primary technical point of contact for suppliers offering products and services to NYNEX.

- **Assistant Engineer**
  Syska & Hennessy, New York, NY
  May 1985 - September 1985
  Consultant to clients in support of facilities management and marketed software. Developed and debugged software. Compiled and edited manuals for software.

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## TECHNICAL TRAINING

- NYNEX Information Technology Institute, White Plains, New York
  Alpha IV Program: August 1990 - February 1991
  An engineering based program exploring current technologies in the telecommunications field. This program emphasizes the need for understanding the various technologies in the telecommunications marketplace, delves into technological issues, then culminates by combining all of the issues into several large network solutions.
  Course Concentration: Computer Architecture, The OSI Reference Model, Network Management, SNA, DecNet, X.25, LANs, MANs, DQDB, SMDS, FDDI, Frame Relay, ISDN, SONET, and SS7.
- Intermediate Ruby on Rails (Rails5), Thoughtbot UpCase, December 2017
- Advanced ActiveRecord Querying, Thoughtbot UpCase, November 2017
- Regular Expressions, Thoughtbot UpCase, October 2017
- Navigating Ruby Files with VIM, Thoughtbot UpCase, September 2017
- Dive into Neovim, Thoughtbot UpCase, September 2017
- Introduction to R for Data Science, Purdue University, August 2017
- 30 Days to jQuery, May 2016
- Learn to Code for Data Analysis, The Open University, October 2015
- Introduction to Cyber Security, The Open University, October 2014
- VIM MasterClass, November 2012
- Cisco Unified Computing System, September 2012
- Cisco Technology Planning Forum, November 2008
- Cisco Preparing for CCIE Routing and Switching, July 2006
- Cisco Security Monitoring Analysis and Response System (MARS), February 2007
- Java - How to Program, Deitel, January 1997
- Science & Technology Quality Systems, June 1996
- EWSD Switch Fundamentals, Siemens Stromberg-Carlson, September 1992
- Data Communications - Metropolitan Area Networks, Bellcore Training & Education Center, August 1992
- A/UX (UNIX) Network Administration, Apple Computer Inc., January 1992
- A/UX (UNIX) System Administration, Apple Computer Inc., November 1991
- A/UX (UNIX) Fundamentals , Apple Computer Inc., November 1991
- Alpha Forum, NYNEX Information Technology Institute, October 1991
- Technically-Write!, IEEE Writing Workshop - Cheryl Reimold, September 1991
- Hewlett Packard 75000 Series 90 SONET Analyzer Training,  Hewlett Packard, June, 1991
- Synchronous Optical Network (SONET) Overview, Bellcore Training & Education Center, March 1991
- Technically-Write!, IEEE Writing Workshop - Cheryl Reimold , March 1991
- Technically-Write!, IEEE Writing Workshop - Ron Blicq, August 1990
- ESP Pole Climbing Refreshing, August 1989
- ESP I/M Tech Basic Tip & Ring, August 1989
- ESP I/M Tech Basic Tip & Ring Initial, July 1989

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## MANAGEMENT TRAINING

- NY State Boating Safety, July 2017
- Elementary Modern Greek I, Stony Brook University, Fall 2016
- Performance Review Training for Managers, October 2003
- Code of Business Conduct Review, March 1996
- Affiliate Transaction Policy, December 1995
- Choosing Success in the New Organization, May 1994
- NYNEX Winning Ways, April 1994
- Ethics Awareness Workshop, April 1992
- Effective Speaking and Personal Relations, Dale Carnegie Institute, April 1991
- Accounting Codes Training, December 1990
- Customer Focused Goals, NYNEX Enterprises Development Center, September 1990
- Management Skills Training, NYNEX Enterprises Development Center, November 1987
- Cardiopulmonary Resuscitation, American Red Cross, 1987, 1988, 1989

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## PROFESSIONAL ENGINEERING
## CONTINUING EDUCATION

- Thermal Stress and Thermal Shock of Materials, March 2017
- Recent Advances in Technology, March 2017
- Personal Protective and Life Saving Equipment, March 2017
- Engineering Economics, March 2017
- NYS PE Cont. Ed Self Study – Ethics, March 2017
- Basic Control Systems, November 2016
- Complex Numbers and their Applications, November 2016
- Engineering Economics, Part 2, March 2015
- Control Systems: Transfer Functions & Laplace Transforms, November 2014
- Basic AC Circuits, November 2014
- Engineering Economics, Part 2, October 2014
- Gravel Roads Design and Maintenance, October 2014
- Complex Numbers, October 2014
- Design of Small Water Systems, October 2014
- Engineering Ethics, October 2014
- Water Supply: Water Distribution, May 2012
- Overview of Electrical Engineering for School Design, May 2012
- Introduction to GIS, May 2012
- Slab-on-Grade Reinforcing Design, April 2012
- Indoor Air Quality, April 2012
- Basement Wall Repair, April 2012
- Overview of the ISO System, April 2012
- Intro to Vibration Analysis, March 2012
- Soil Mechanics, December 2011
- Electrical Safety on the Job Site, February 2011
- New York City Building Code: Fire Protection Systems, May 2009
- NYS/NYC Traffic Signal Configurations, May 2009
- Environmental Site Assessment, May 2009
- Plumbing & HVAC, An Overview, May 2007
- Material Science in Bioengineering, May 2007
- Avoiding Design Blunders, April 2007
- Why Standards Matter, April 2007
- Personal Protective and Life Saving Equipment, April 2007
- Wireless Network Security, April 2007
- Object-Oriented Thinking, April 2007
- Introduction to Computer Networking, April 2007
- Analysis of Continuous Spanned Beams, April 2007
- Applied Mechanics in Bioengineering, April 2007

## PROFESSIONAL ASSOCIATIONS

- Institute of Electrical and Electronic Engineers
- National Society of Professional Engineers, New York State Chapter

## INTERESTS

- Published Professional Photographer
- Shotokan Karate
- Sailing, Surfing, and Scuba Diving

## REFERENCES

Available upon request.