

# Karl A. Nyberg

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**Summary** Senior software professional with over twenty five years industry wide lifecycle software experience (including SEI Level 5 organizations) performing senior technical / supervisory projects. Particular strengths in large scale transaction processing systems, automation and writing. Interoperation among programming languages, standards and tools, communications protocols, data formats, and UNIX variants.

**Education** **Massachusetts Institute of Technology** Cambridge, MA

- Master's degree in Electrical Engineering and Computer Science  
Thesis: A Methodology for Using Algebraic Specifications
- Bachelor's degree in Computer Science and Engineering  
Thesis: An Experiment in Using Algebraic Specifications

**Awards**

- Association for Computing Machinery (ACM) Special Interest Group on Ada (SIGAda) Ada Community Contributions Award, November, 2007
- Sun Microsystems "Open Performance Contest" winner for submission of "A Constructive Approach to Integer Factorization" as evaluation of, and awarded, a Sun Fire T1000, January 2007
- Institute for Electrical and Electronic Engineering (IEEE) POSIX Pioneer award, March 1988

**Professional**

- ACM Senior Member, IEEE, ACM SIGAda
- US SC22 JTC1 TAG / ISO IETC J22 - Java Study Group (1997 - 1999)
- Federal Advisory Board on Ada (1990 – 1992)
- Ada 9X Requirements Team (1989 – 1990)
- IEEE Technical Committee Operating Systems P1003.1 (1986 – 1988)

**Experience** August 1985 – Present **Grebyn Corporation** Sterling, VA

Projects: Various projects ranging from single day to multi-year efforts covering the entire software lifecycle, including local, national and international efforts. Authored, edited, published and marketed multiple periodicals - newsletters, compact disks and books on Ada (technical, market and informational).

Major Clients: Boeing (via VAST), Computer Sciences Corporation, Global Protocols, Inc., Honeywell Federal Systems, IBM (via ARC), Institute for Defense Analyses, IntelliData, JRL Associates, Lockheed Martin (via TAC Worldwide), Objective Interface Systems (OIS), Inc., Openet Telecom (via Sabianet), SAIC, SEI, Software Productivity Consortium, TowerSource LLC, VISA Interactive, VISA International, Waterford Consultants.

Oct. 2010 – Present      **HTSI/Defense & Space**      Greenbelt, MD  
Program Manager 5 (SME) (L)

Temporary, part-time, on-call support for Near Earth Network Services (NENS).

Aug. 2005 – Dec. 2005      **Geologics**      Alexandria, VA  
Ada Software Engineer / Software Auditor

Part-time support for software review of En Route Automation Modernization (ERAM) subcomponent.

Jan. 1983 – May 1986      **Verdix Corporation**      Chantilly, VA  
Various Senior Technical Positions

- Created initial concept of Verdix Secure Local Area Network (VSLAN).
- Authored winning Small Business Innovation Research (SBIR) Phase I proposal for Network Security Devices (later productized as VSLAN).
- Administered computing facilities and supervised junior staff.
- Verdix Ada Development System (VADS) product development, quality assurance and customer support.

Oct. 1981 – Sept. 1982      **Digicomp Research Corp.**      Ithaca, NY  
Security Analyst

- Investigated use of Gypsy methodology to secure database systems.
- Presented oral and written reports to RADC and Pentagon personnel.
- Managed portions of subcontract with University of Texas.