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Curriculum Vitae

Summary of Qualifications:

- Founder and President of inViVo Vision, Inc., a technology start-up company to focus on research and development solutions in the physical, engineering, life and social sciences.
- Thirty-five year industry career, eighteen in basic research at IBM, seventeen in telecommunications at NYNEX, with direct management and R&D experience in various positions of increasing responsibility as senior scientist and department director, respectively.
- Responsible for the management of large research and business development projects within large business units at IBM and NYNEX, respectively.
- Executive leadership at NACME.
- Extensive interaction with government, corporate and academic organizations at the national and international levels during the last two decades.
- Project leader and visionary in a pioneering initiative with historical significance in distance education involving both information science and telecommunications technologies that was demonstrated to the U.S. Senate during hearings leading to the Telecommunications Act of 1994.
- Respected worldwide advocate of social equity, education and technology, including advising the UNESCO Education Directorate and the UNESCO Education Website.
- Recognized national leader and spokesperson for equity of access to education.
- Direct technical contributor to landmark solutions for Distance Learning and Digital Libraries, including specific solutions for minorities and for developing nations, including co-authoring a seminal position paper featured in "*UNESCO: 50 Years in Education*," a collection of papers distributed in CDROM form to all ministries of education in the world.
- Direct technical contributor to telecommunications, engineering, experts systems, object-oriented systems, policy management systems and systems architectures for a variety of business projects, products and applications.
- Co-author of various proposals, position papers and research reports involving artificial intelligence, policy management, systems and knowledge management, educational technology, education infrastructure, delivery of media via digital libraries, the Internet, data broadcast satellite (DBS); and, the use of electronic commerce in business and academia.
- Project leader in several pioneering pilot projects in education, including presenting these to the U.S. Senate, UNESCO, OECD, as well as to hundreds of professional groups around the world.
- Member of numerous government, academic and industry committees on education standards; equity access to education; math, science, engineering and technology education standards and digital libraries; and curriculum and assessment.
- Appointed to the prestigious Mathematical Sciences Education Board of the National Research Council and to the New York State Education Department Standards and Assessment Committee.
- Appointed by the President of the National Academy of Science to a five-member Oversight Committee for Improving Learning with Information Technologies (ILIT).
- Co-chair in the ad hoc committee of the National Academy of Sciences, that organized the first ILIT Conference at the National Academy of Science in Washington, D.C., to guide the work of hundreds of scientists and researchers in producing a national report and forming a new standing board of the Academy, (this work is still in progress).

- Recipient of numerous peer recognition awards in the areas of equity access to education, education infrastructure, minority education and the use of advanced telecommunications technologies in education.
- Considered a leading expert in the areas of advanced information and telecommunications technologies, including: policy, systems and knowledge management; Internet, Internet II, Web-casting of digital TV and digital audio, broadband wire, broadband cable, broadband interactive, satellite Internet delivery; and, digital libraries, distance learning, curriculum and assessment.
- Extensive hands-on experience in information and communications technologies at the highest levels of strategic technical and marketing knowledge.
- Participation in technical disclosures and shared inventions; numerous published and confidential-restricted technical publications; published numerous technical reports, articles, essays, and newsletters; participated in numerous seminars, conferences, also giving numerous keynote addresses and media interviews.
- Founder and co-editor of the first electronic newsletter (*The EduPort Newsletter* at the University of Nebraska) with worldwide circulation, covering the areas of digital libraries and infrastructure for education launched before the Web existed.
- Extensive adjunct faculty (online and traditional classroom) experience in the technical and scientific areas: IBM International Education Center, La Hulpe, Belgium and IBM U.S. Learning Center, Thornwood, New York; and computer programming and communications technology instructor at NYNEX in New York; guest lecturer at various universities in the U.S. and around the world; and pioneer of online instruction, co-developing and co-teaching the first online course for technology in education at the Johns Hopkins Center for Technology and Educators. Extensive board membership experience in both governance and advisory capacities at academic, non-profit, industry and government organizations.
- Extensive fund-raising support experience, including presentations, position papers, proposals, and effective development and nurturing of government and industry relationships and partnerships.
- Fluent in English and Spanish, knowledge of French, some knowledge of Italian and Portuguese.
- U.S. Citizen, Cuban-America, grew up in the Harlem section of Manhattan, and attended both parochial and public schools in New York City.
- Received all academic degrees by attending evening school while raising a family.
- Married, 2 children: daughter Diane is a guidance counselor in the predominantly Hispanic school district of New Britain, Connecticut; son Joseph is a graduate of New York University, pursuing advanced studies in economics and law.

Experience:

inViVo Vision, Inc., New Canaan, Connecticut.

Founder and President, December 2002 to present:

- Founded and organized a research and solutions start-up technology company to focus on services and applications in the physical, engineering, life and social sciences, with the goal of providing an outlet for women and minority scientists, engineers and researchers to lead their own projects in an intellectually nurturing environment focused on internal and external mentoring of professionals and students.
- Developed the intellectual property for inViVo Vision over a two-year research and development process in collaboration with a selected group of industry and university colleagues. Produced the necessary peer-reviewed publications in support of inViVo Vision solutions. Reserved the methods patents to build the intellectual property portfolio of inViVo Vision. Built necessary start-up relationships with government, academic and industry partners to help launch the inViVo Vision suit of products and solutions. Presented inViVo Vision solutions at national and international world-class venues. Applied for SDB/8(a) status for inViVo Vision to more effectively participate in government schedules and procurement.

National Action Council for Minorities in Engineering (NACME), New York, New York.

January of 1998 to December of 1999, two year executive-on-loan assignment from IBM Research as Director, Educational Technology:

- Envisioned and developed the technical and business basis to provide advanced commercial and educational solutions for various minority engineering programs. The solutions proposed would deliver educational programs in an equitable and cost effective manner based on advanced telecommunications

technologies, using set-top boxes, cable, data broadcast satellite and other delivery platforms. The program was proposed by NACME to the University of Texas at El Paso.

- Proposed the *Texas Teledigital Community of Learners*, a position paper that describes an Information and communications technologies solution for statewide education access for the State of Texas, and as a prototype national solution to promote educational equity. This solution was presented by NACME to the highest levels of government in the State of Texas at the time.
- Designed a solution for alternative assessment based on advanced data mining technologies, meant to identify talent in students that are currently by-passed by standard assessment tools. The system is being worked with Virtual Gold, Inc., and it was the subject of a monograph published by Johns Hopkins University. These ideas were also included in a proposal that was presented by NACME to the Gates Foundation.
- Developed the plan and wrote the technical proposal for the Gates Millennium Scholar Program that was presented by NACME to the Bill and Melinda Gates Foundation for funding in 2001.
- Defined the requirements for various technical and academic publications that will make NACME's work of 25 years known to industry and academia through a new NACME Research and Development Journal and a book. The NACME Journal is already being published on a regular basis.
- Developed several proposals for consideration by NACME funding sources and a technology-based business plan for sustained revenue for the organization based on an e-commerce strategy for the organization at large.
- Engineer and editor at large of the NACME issue: *Celebrating Minority Engineering of the IBM Journal of Research and Development*, 2000.

**IBM T. J. Watson Research Center, Hawthorne, N. Y.
March 1985 to retirement in 2003, Senior Scientist:**

- Director of the *EduPort Project*, the first networked media on-demand for education pilot (five years ahead of uses of the Internet and the Web in education (academia or schools). The first interactive networked digital library for K-12 education to run in a real-time network and to include digital video. This project was ten years ahead of its time and continues to be recognized as the most advanced demonstration to date of advanced digital and network technologies in education. Representatives from more than eighty-five countries have visited the EduPort prototype classroom at the University of Nebraska in Lincoln, Nebraska and Lincoln High School.
- Conceived and created the first in the industry, and a one-of-a-kind large-scale digital video-on-demand system for education.
- Introduced IBM (worldwide business units) to new technical solutions in the area of digital video for education, digital libraries for education and multimedia for education.
- Designed the first systems and communications infrastructure for educational curriculum access and assessment, first described and published as my Ph.D. thesis, the *Experimental Educational Environment (EEE)*.
- Implemented various pilot projects to demonstrate solutions based on the EEE model, including EduPort.
- Managed a large team of Ph.D. researchers, engineers, software developers and co-op students worldwide to create leading edge solutions for IBM academic systems based on EEE and EduPort.
- Senior member of the IBM Research team responsible for creating, promoting, and reviewing IBM's industry leading inventions in educational, communications and multimedia technologies.
- IBM Research member of the technical steering committees for university technology strategy at Marist College, the University of Michigan, the University of Nebraska and many other IBM academic customers.
- Contributed to the design of the first IBM technology interactive digital video on-demand system.
- Co-designed an interactive Internet/Web broadcast system that does not require a return channel, as an ideal equity access solution for underprivileged and geographically remote users; and suitable for developing nations.
- Presented solutions for equity access to education to the highest level of worldwide IBM audiences, including government and academic leaders.
- Engaged and influenced IBM customers all over the world in the use of advanced educational technology.
- Helped IBM promote and execute the expansion of educational technology worldwide.
- Defined the technical and marketing content for government proposals featuring educational technology solutions in behalf of various IBM business partners and customers.

- Led several teams of technical and marketing specialists to design, create, develop, and market technology-based systems in government and business areas.
- Introduced the concept of Policy Management for technology (systems and software management) and non-technology (social science) applications and problems. Developed the essential elements of the concept of policy management for e-commerce (IBM confidential).
- First defined the constructs for an object-oriented language for the specification of policy management.
- Developed and promoted solution architectures, designs, and requirements gathering for expert systems and object oriented systems for IBM network and large systems management applications and solutions.
- Designed constructs and components for a large scale programming language for the development of intelligent systems (IBM confidential).
- Invented some of the fundamental technical concepts in intelligent systems, knowledge engineering and expert systems (IBM confidential).
- Leading expert in the area of intelligent systems applications for large and complex systems.
- Leading expert in the areas of Systems and Policy Management; and Knowledge-based Systems.
- Designed the systems architecture for the software backbone of Project 2061 of the American Association for the Advancement of Science.
- Co-designed and co-developed RODM (the resource object data manager), the first object oriented in-memory cache for large-scale databases.
- Co-designed and co-developed YES-L/1 (the Yorktown expert systems language 1), the first production (expert) systems language for scale computing and large and complex problems.
- Co-designed and co-developed of YES-MVS (Yorktown expert system for multiple virtual storage operating systems), the first large-scale artificial intelligence (production) expert system.
- Co-designer and co-developer of KnowledgeTool, a general-purpose programming language for intelligent systems and IBM Program Product for special customers and applications.

NYNEX, New York, New York.

August of 1968 to March of 1985, Senior Manager, Information Systems Organization:

- Senior manager in charge of the statewide software update system and responsible for the management of a large department and large distributed staff.
- Introduced NYNEX to artificial intelligence and expert systems technologies for knowledge engineering in workforce reduction without loss of talent.
- Created, developed, and implemented several software systems and data communications distribution products and solutions, including automated software updates.
- Manager and technical leader of a team of hardware and software developers to implement and put the system in statewide production.
- Senior NYNEX Technical Office member guiding technology strategy and advising the corporation.
- Implemented the product plans to meet requirements, target costs and time, to implement within a cross-functional organization the program development for all payroll and billing applications updates, including field support.
- Established solution focus for complex products for total information systems growth in tens of millions of dollars, to engage the company in a completely new business venture at the time (i.e., the sale of internally developed software).
- Led and managed a cross-functional development and marketing team to drive new generations of software products with a then emerging marketplace oriented focus; maintained existing products to revitalize internal (inter-departmental) customers; created new internal customers (i.e., bringing new corporate areas to implement technology solutions); and ran the product maintenance process for the (internal) technology acquisition operation.
- Led information systems (technology) support team efforts to help successfully transition the company during divestiture from AT&T.
- Made significant engineering contributions, including crisis management for civil service response and state communications network outage response systems for cable failure command and control, technical support in an emerging computing environment.
- Developed a very early system for executive reports production, based on a natural language oriented syntax, to automatically generate SAS reports (statistical analysis system) from existing internal SAS databases.

- Designed and developed a system called PRODUCTS for automatic updates via the network of remote software “libraries” (i.e., computer file systems) across all NYNEX production systems (i.e., mainframe computing centers) in New York State. This solution was in a class similar to what we now know and have created as Internet/Web solutions.
- Designed and executed the first and most successful ESS (electronic switching system) Cutover in the history of the telecommunications industry.

Education:

- City University of New York, The City University Graduate Center, New York, New York, Ph.D. in Computer Science, 1991. Thesis Title: Exploratory Educational Environment for Computer-Based Education, (EEE). (This is the computer science architecture that is the theoretical basis for most computer and communications education infrastructure solutions in place today.)
- City University of New York, The City University Graduate Center, New York City, New York, Master of Science in Engineering, 1985. Thesis Title: Systems that Learn by Means of Artificial Intelligence.
- City University of New York, The City University Graduate Center, New York City, New York, Master of Philosophy, 1985.
- City College of the City University of New York, New York City, Bachelor of Arts in English, minor in Architecture and Engineering Science, 1973.

Summary of Accomplishments:

- Appointed by the President of the National Academy of Science to the five-member Oversight Committee for the Improving Learning with Information Technologies Committee of the National Academy of Sciences, Washington, D.C., to guide the work of hundreds of scientists and researchers to produce a national report and the formation of a new standing board of the Academy, (this report has been published but has not yet been distributed).
- Co-chair of the first National Academy of Science Conference on Improving Learning with Information Technology (ILIT).
- Member of the Board of Advisors of the School of Engineering, City College of New York, New York, New York.
- Member of the Board of Directors, Mount Saint Michael High School, Bronx, New York.
- Member of the Board of Advisors, The National Peace Garden (Monument) Foundation, Washington, D.C., and chair of the education committee.
- Member of The Mathematical Sciences Education Board of the National Academy of Sciences, an Advisory Board of the National Research Council, Washington, DC.
- Member of the Experts Group of the Council of Competitiveness, Washington, D.C.
- Advisor to Rice High School, New York, New York.
- Member of the National Research Council Committee on pre-college and undergraduate digital libraries for math, science and technology and co-author of two NRC reports on the subject.
- Member of the New York State Education Department Math, Science and Technology Committee on Curriculum, Standards and Assessment, Albany, New York.
- Member of ad hoc steering committees for university technology strategies at Marist College, the University of Michigan, the University of Nebraska, the Korean Open University, and other institutions.
- Member of the Board of Directors, Discovery Museum, Bridgeport, Connecticut.
- Advisor to Reach and Teach in South Africa to develop education technology strategies.
- Advisor to the American Association for the Advancement of Science (AAAS), Project 2061.
- Advisor to the Hispanic College Fund.
- Advisor to *La Familia*, Career Communications, IBM funded outreach and education initiative.
- Advisor to government and academic leaders in Asia, Latin America, Australia, and Europe, for technology-based education reform.
- Author of a landmark paper entitled A Universal and Global Education Infrastructure, featured in *UNESCO: 50 Years in Education*, a book and CD-ROM distributed to all ministers of education in the world.
- Author and editor of the *EduPort Newsletter*, at the University of Nebraska in Lincoln, recognized as the first electronic newsletter on digital libraries and infrastructure for education with broad worldwide circulation.

- Co-editor of the NACME issue of the *IBM Journal of Research and Development*.
- Proposed and co-chaired the First IEEE Policy Management Conference and defined the basic concepts in the research field.
- Chair of The First Workshop on the Role of Home Technologies in Education, 1998, sponsored by the Connecticut Academy of Education.
- Chair of The First Conference on Digital Libraries in Education, 1993, sponsored by NASA Goddard Space Flight Center. Conducted workshops on the topic that were sponsored by various academic conferences for several years since then.
- Chair of The First Workshop on Internet Access for Education in Developing Nations, 1997, UNESCO Headquarters, Paris. Coordinated the effort to bring the UNESCO Web site to the University of Nebraska.
- Keynote speaker at numerous seminars and workshops in national and international forums on various academic and technical topics, this included professional organizations such as the AAAS, ACM, AACE, CATE, EDUCAUSE, ICTE, IEEE, NECC, SALT, SITE, SIGGRAPH, STATE, and others; and national and international government and industry organizations such as IBM, NACME, the OECD, the U.S. Department of Education, the U.S. Department of Commerce, the U.S. Department of State, NASA, NIST, UNESCO, and others.
- Honored in 1997 as Business Educator of the Year by the City University of New York Education Alumni Association.
- Honored in 1998 as Outstanding Woman Who Makes a Difference by U.S. Black Engineering and U.S. Hispanic Engineer.
- Honored in 2000 with the prestigious Townsend Harris Medal by the City College of New York "for contributions to society in a chosen field of work."
- Cited in WHO's WHO American Millennium, WHO's WHO of American Women in Science, WHO's WHO of American Women and The International WHO's WHO of Distance Learning.
- Nominated by an IBM Fellow to the IBM Academy of Technology in 2002.
- Republican endorsed candidate for the U.S. Congress in Connecticut's First Congressional District in 2002.

Publications:

Masullo, M.J., Messier, P., Tsantis, L., Criscenti, D., *Agile Learning for Agile Manufacturing: An e-Learning Model*, Society for Applied Learning Technology, SALT'05, Washington, D.C., August 2005.

Masullo, M.J., Moreno, W., Tsantis, L., *An Anatomy of the International ICT Divide*, Third International Conference on Education and Information Systems, EISTE'05, Orlando, Florida, July 2005.

Masullo, M.J., et al, *A Framework for the Maintenance and Evolution of ePolicy-Guided Web Applications*, Institute for Operations Research and the Management Sciences, Vienna, Austria, July 2005.

Masullo, M.J., Tsantis, L., *e-Mentoring as a New Paradigm for Learning*, Athens Institute for Education and Research, Sixth International Conference on Education, Athens, Greece, May 2004.

Masullo, M.J., Tsantis, L., *Self-e-Mentoring: A New Paradigm for In-service Teacher Education*, SITE 2004, Atlanta, Georgia, March 2004.

Masullo, M.J., *From Black Box to Crystal Ball*, HEAnet, National Networking Conference, Kilkenny, Ireland, November 2003.

Masullo, M.J., et al, *Planning for Two Transformations in Education and Learning Technology*, Report of the Improving Learning with Information Technology Committee, National Academy of Science, Washington, D.C., 2003.

Masullo, M.J., *Education and the Digital Divide*, Harvard Law School, Cambridge, Massachusetts, April 2003.

Masullo, M.J., *Report of Symposium on Improving Learning with Information Technology*, National Academy of Science, Washington, D.C., January 2001.

Masullo, M.J., Ruiz, A., *e-Quality*, New Horizons for Learning, Online Magazine, 2000.

Masullo, M.J., Ruiz, A., *People Are the Only Thing that Matter*, New Horizons for Learning, Online Magazine, 2000.

Masullo, M.J. et al, *Serving the Needs of Pre-College Science and Mathematics Education: Impact of a Digital National Library on Teacher Education and Practice*, Proceedings from a National Research Council Workshop, Executive Committee Report, Mathematical Sciences Education Board, National Research Council, National Academy of Science, Washington D.C., 1999.

Masullo, M.J., McMullen, B., Postlethwaite, B., *Digital Libraries: Potential and Risks*, EDUCAUSE, Long Beach, California, October 1999.

Masullo, M.J., Tsantis, L., *Challenges in Educational Technology: Minority Engineering*, NASA GSFC, CESDIS Workshop, October 1999.

Abensour, D., Kaplan, J., Masullo, M.J., Peters, L., Ramirez, R., Ruiz, A., Withrow, F., *On the Need for Realistically Scaleable Educational Technology*, SALT '99, Arlington, Virginia, July 1999.

Masullo, M.J., *The Digital Library Concept*, Tenth University-Wide Conference of Teaching & Faculty Development, Tufts University, Grafton, Massachusetts, May 1999.

Masullo, M.J., *Discovering the Academic Potential of Our Children*, NACME Forum'98, Arlington, Virginia, October 1998, (Published by the On-Line Decision Support Journal.)

Masullo, M.J., et al, *Digital Libraries in K-12 Education*, ACM DL'98 Workshop, Pittsburgh, Pennsylvania, June 1998.

Masullo, M.J., et al, *The Role of Home Technologies in Education*, A Workshop on the Role of Home Technologies in Education, Rensselaer at Hartford, Hartford, Connecticut, June 1998.

Masullo, M.J., Chernock, R., Hisham, E., *Equitable Access to Educational Resources: Comparing Possible Solutions*, Conference on Educational Telecommunications, ED-TELECOM '98, Freiburg, Germany, June 1998.

Masullo, M.J., *Challenging the Meaning of Information Technology*, ICTE, Santa Fe, New Mexico, March 1998.

Masullo, M.J., et al, *Infusing Web Content with Educationally Relevant Indices*, WebNet, Toronto, Canada, November 1997.

Masullo, M.J., *User Scenarios for Equity Access to Educational Resources*, NACME Forum, Seattle, Washington, October 1997.

Masullo, M.J., et al, *The Role and Value of a Digital National Library for Undergraduate SME&T Education*, National Proceedings from a National Research Council Workshop, National Academy of Science, Washington, D.C., August 1997.

Masullo, M.J., Hisham, E., Ruiz, A., *A Regional Broadcast-Centric Education System*, IEEE Symposium on Computers and Communications, Alexandria, Egypt, July 1997.

Mack, R., Masullo, M.J., Meyers, J., *Educational Multimedia: Perspective in Evolution*, Conference on Educational Telecommunications, ED-TELECOM '97, Calgary, Canada, June 1997.

Emal, J., Masullo, M.J., Ruiz, A., *DBS-Based Education and the Role of the Teacher*, UNESCO, UK Open University International Colloquium, Virtual Learning Environments and the Role of the Teacher, Milton Keynes, UK, April 1997.

Masullo, M.J., *Roles for Digital Libraries in K-12 Education*, D-Lib Magazine, September 1996.

Ruiz, A., Masullo, M.J., *A Universal and Global Education Infrastructure*, United Nations Educational, Scientific and Cultural Organization, UNESCO World Congress, Moscow, Russia, July 1996.

Masullo, M.J., *Infrastructure, Education and Digital Libraries*, Conference on Computers and Advanced Technology in Education, CATE '96, Cairo, Egypt, March 1996.

Masullo, M.J., Emal, J., *A Digital Video Library Project for Teaching and Learning*, D-Lib Magazine, ISSN 1082-9873, January 1996.

Masullo, M.J., Brown, D., *Pioneering Video-On-Demand Projects in K-12 Education*, International Symposium on Digital Libraries, Ibaraki, Japan, August 1995.

Masullo, M.J., Wolf, K., *Video-On-Demand for Teachers and Students*, International Joint Conference on Artificial Intelligence, Montreal, Canada, August 1995.

Masullo, M.J., Tsantis, L., *Putting Digital Libraries to Work for Education*, OECD-KISDI Joint Conference on Information Infrastructure, Seoul, Korea, April 1995.

Masullo, M.J., *Incorporating New Paradigms in Distance Learning*, Conference on Information and Knowledge Management, CIKM'94, Gaithersburg, Maryland, November 1994.

Masullo, M.J., Tsantis, L., *A Networked Education Infrastructure*, Breaking the Barriers of the National Information Infrastructure, Washington, D.C., September 1994.

Masullo, M.J., *Digital Libraries in K-12 education*, Workshop on Digital Libraries: Current Issues, Rutgers University, Newark, New Jersey, May 1994.

Masullo, M.J., Nguyen, T., *Networked Access to Digital Libraries in K-12 Education*, Society for Technology and Teacher education Conference, STATE '94, Washington, D.C., January 1994.

Masullo, M.J., Ramirez, R., et al, *First Workshop on the Role of Digital Libraries in K-12 Education*, Conference on Information and Knowledge Management, CIKM'93, Washington, D.C., November 1993.

Masullo, M.J., et al, *A Prototype Digital Museum and Science Center*, Association of Science and Technology Centers, ASTC'93, Columbus, Ohio, October 1993.

Masullo, M.J., et al, *Multimedia On-demand*, SIGGRAPH'93, Anaheim, California, August 1993.

Masullo, M.J., et al, *Project 2061: Multimedia Curriculum Blocks*, UNESCO Conference on Education 2000, Paris, France, July 1993.

Masullo, M.J., et al, *Multimedia On-demand and the Organization of Education Systems*, Proceedings of IFIP Conference on University Uses of Visualization in Scientific Computing, IFIP WG 3.2, University of California at Irvine, Irvine, California, July 1993.

Masullo, M.J., et al, *The Technology is Now: Multimedia On-demand*, Governors' Conference, Arkansas, Louisiana and Mississippi Mathematics and Science Education 2000, New Orleans, Louisiana, July of 1993.

Masullo, M.J. et al, *RHINO: Designing Multimedia Curriculum Blocks*, Educational Multimedia and Hypermedia, ED-MEDIA 93, Orlando, Florida, June 1993.

Masullo, M.J., et al, *RHINO: Creating Learning Experiences, an Overview*, Proceedings of the National Education Computing Conference, NECC-93, Orlando, Florida, June 1993.

Masullo, M.J. et al, *Multimedia Server Technology and its Application to Education*, NASA Goddard Space Flight Center Seminar, Greenbelt, Maryland, June 1993.

Masullo, M.J., et al, *The Technology is Now: Multimedia On-demand*, Proceedings of Reinventing the Schools: The Technology is Now, A Convocation by the National Academy of Sciences. National Academy of Sciences, Washington D.C., May 1993.

Masullo, M.J., Calo, S., *Policy Management: An Architecture and Approach*, Proceedings of the First International Workshop on Systems Management, IEEE, Los Angeles, California, April 1993.

Masullo, M.J., *RHINO: A Curriculum Support System, Creating Learning Experiences*, IBM Research Report, RC 18096, 1992.

Masullo, M.J., Calo, S., *Policy Management*, SHARE 79.5, Tampa, Florida, 1992.

Masullo, M.J., *An Exploratory Educational Environment for Computer Supported Education*, IBM Research Report, RC 16662, 1991.

Masullo, M.J., Mozes, E., *A Methods Specification Language for Object Oriented Databases*, IBM Research Report, RC 16360, 1990.

Masullo, M.J., Ennis, R., *An Experimental Educational Environment*, Proceedings of the ITL Conference on Expert Systems, IBM Expert Systems ITL, San Jose, California, 1989.

Masullo, M.J., Sjolund, M., *Computers and Handicapped Children: AI and LEKOTEK's COMPUPLAY*, IBM Research Report, RC 13905, 1988.

Cruise, A., Ennis, R., Finkel, A., Hellerstein, J., Klein, D., Loeb, D., Masullo, M.J., Milliken, K., van Woerkom, H., Waite, N., *YES/L1: Integrating Rule Based, Procedural and Real-Time Programming for Industrial Applications*, Proceedings of the Third Conference on Artificial Intelligence Applications, IEEE, Kissimmee, Florida, 1987.

Chou, C., Cruise, A., Ennis, R., Finkel, A., Hellerstein, J., Loeb, D., Klein, D., Masullo, M.J., Milliken, K., van Woerkom, H., Waite, N., *Improved RETE Pattern Matching*, Proceedings of the ITL Conference on Expert Systems, IBM Expert Systems ITL, New York, New York, 1986.

Cruise, A., Ennis, R., Finkel, A., Hellerstein, J., Klein, D., Loeb, D., Masullo, M.J., Milliken, K., van Woerkom, H., Waite, N., *YES/MVS and the Automation of Operations for Large Computer Complexes*, IBM Systems Journal, 1986.

Milliken, K., Cruise, A., Ennis, R., Finkel, A., Hellerstein, J., Klein, D., Loeb, D., Masullo, M.J., van Woerkom, H., Waite, N., *Isolating Functionality in a Real Time Expert System*, IBM Research Report RC 12318, 1986.

Klein, D., Cruise, A., Ennis, R., Finkel, A., Hellerstein, J., Loeb, D., Masullo, M.J., van Woerkom, H., Waite, N., *YES/L1: Integrating Expert System Technology with Traditional Programming Languages*, IBM Research Report, RC 12316, 1986.

Cruise, A., Ennis, R., Hellerstein, J., Milliken, K., Masullo, M.J., Rosenbloom, M., van Woerkom, H., *A Language for Implementing Real-Time Expert Systems*, IBM Research Report, RC 11500, 1985.