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PROFILE

I have over 30 years of experience in statistics and data science; information technology strategy, development and management; and IT consulting. My distinguished and diverse career is marked by major accomplishments delivering innovative solutions and driving business value and transformational business operations through analytics and information technology. My broad responsibilities have included Chief Data Scientist for a public corporation; Chief Technology Officer for several systems integrators; general manager of a medical device product team and healthcare solutions business unit; general manager of a global consulting unit; planning and delivering major information systems including in regulated environments; and developing, managing and executing major data collection and analytics projects. In addition to experience in the private and non-profit sectors, I have held a significant appointment in the US Civil Service and faculty appointments at Princeton University and the University of Texas at San Antonio. I earned a PhD in Statistics from Va. Tech in 1974 as well as a BS (1968) and MS (1972) in Mathematics from Tech.

EXPERIENCE

CHIEF DATA SCIENTIST, SR. VICE PRESIDENT, MAXIMUS CORPORATION

(ACENTIA, LLC PRIOR TO ACQUISITION BY MAXIMUS) — 2011 - PRESENT

(Acentia was acquired in April 2015 by MAXIMUS whereupon I transitioned from being the CTO of Acentia to that of Chief Data Scientist, MAXIMUS. I joined Acentia in the summer of 2011.)

MAXIMUS (MMS) is a professional services firm and systems integrator for whom I am the Chief Data Scientist directing the development of its analytics and data science offerings and its technology strategy in support of our customers' analytics strategies and our internal business goals. Reporting to the CEO, I collaborate with our Chief Digital Officer and our business unit executives and technical staff to ensure that MMS's solution offerings are innovative, of high quality and cost-effective. I am charged with anticipating technology trends, including developments in data science, big data and artificial intelligence and their potential impact on our customer's goals. I am also responsible for developing strategic partnerships with technology companies and other professional service firms. I participate in several business development functions such as capture and proposal preparation. I also engage directly with customers on various strategic projects. My leadership and initiatives have significantly increased MMS's capabilities in big data/analytics, cloud computing and digital services.

CISCO SYSTEMS 2006 - 2011

CTO, HEALTHCARE SOLUTIONS, CISCO SYSTEMS — 2009 - 2011

In my role as CTO I was responsible for driving Cisco's healthcare solution strategy. I directed the development of Cisco's first telemedicine healthcare solution, Cisco HealthPresence. This product was announced at HIMSS 2010 and was put into production at lighthouse customers including Ascension Healthcare, the Mayo Clinic and St. Joseph's healthcare. I was responsible for general management of the HealthPresence business globally, with forecasted revenues of \$26 million in FY2012. I was responsible for identifying and driving development of strategic partnerships with service providers such as AT&T and Telefonica and with system integrators such as IBM.

DIRECTOR, BUSINESS TRANSFORMATION SERVICES, CISCO SYSTEMS — 2006 - 2009

During this period I was responsible for defining Cisco's Business Transformation and Service Oriented Network Architecture (SONA) service offerings globally. I led consulting engagements with Cisco's enterprise customers and collaborations with our systems integration partners. I also led the Business Transformation Practice, for which my responsibilities included defining solution offerings and best practices, training internal and external personnel, partner enablement and support for marketing. This program became the basis for Cisco's highly successful Winning in Architecture practice. In 2009 I was asked to launch Cisco's healthcare solutions unit referenced above.

DIRECTOR, NORTHROP GRUMMAN MISSION SYSTEMS — 2001- 2006

I was Technology Director/Vice President of Information Systems Engineering in the Information & Technology Solutions Division of Northrop Grumman Mission Systems (NGMS), a senior technical management position with significant client-facing interactions and responsibilities. I had P&L responsibility for a line of business that generated \$45 to \$50 million annually and employed over 200 IT professionals. I directed the design and development of large-scale information systems for NGMS clients primarily in the Federal sector. I supervised development of the Defense Travel System, a 24/7 DOD enterprise travel management system that as of May 2006 supported nearly 900,000 users, processed over 40,000 logons daily and interfaced with over 30 external systems. My activities at NGMS included: preparing, presenting and executing IT strategies; designing and explaining IT solutions and architectures; selecting suppliers and subcontractors; leading development teams; contributing to major proposal efforts and collaboration across several divisions in addition to my home organization.

INDEPENDENT CONSULTANT — 2001

I provided information systems consulting services to companies and organizations in the health care sector.

CHIEF INFORMATION OFFICER AND SR VP, AMERICAN RED CROSS — 1994 - 2001

For 7 years, I was Chief Information Officer (CIO) of the American Red Cross, then a \$3B organization, for which I was responsible for the entire portfolio of information technology and telecommunications needs of the organization. I supervised a staff of over 400 persons and budgets exceeding \$100 million annually. I led the transformation of this organization from one that struggled with a disorganized and dysfunctional IT infrastructure and organization adversely affecting its business performance, to one wherein IT became a high-performing strategic enabler of its life-saving, mission critical services. I developed and executed an IT strategic plan for the organization and led several multi-year projects that replaced various obsolete legacy systems and established a robust IT infrastructure. I oversaw the development of two major data centers and an enterprise wide area network and led the installation of a corporate office automation infrastructure. In the area of decision support, I championed the development of a data warehousing capability and supervised the deployment of PeopleSoft HR and Oracle financial applications. In addition, I led the enterprise into the e-business age delivering several early e-commerce applications. I also supervised two major consolidations and reorganizations of the information systems department as management chose to consolidate separate business unit IS organizations under my successful leadership. Finally, I was responsible for all aspects of this organization's heavily FDA-regulated information systems, including four software medical devices; I successfully concluded the organization's IS-related obligations under a consent decree with the FDA. Our work earned my team 3 prestigious Computerworld-Smithsonian laureateships.

SR DIRECTOR, WORLDWIDE CLINICAL INFORMATION SYSTEMS, MERCK PHARMACEUTICALS— 1990 - 1994

For over 3 years, I was responsible for IT support to the worldwide clinical research and development efforts of Merck Research Laboratories, the research and development division of Merck that includes statistical design and analysis of clinical trials. I was responsible for coordinating the activities of the R&D organization with those of the corporate IT organization. I supported the development of several major pharmaceuticals from Phase II to Phase IV. In this capacity, I gained early exposure to clinical data management, electronic data capture (remote data entry), document management, electronic NDA filings with the FDA and other regulatory bodies, and all other aspects of statistical and IT support for the drug development process.

TECHNICAL DIRECTOR, BDM INTERNATIONAL — 1985 - 1991

For approximately 7 years, I was a senior technologist at BDM International, a large professional services and systems integration company. (BDM was eventually acquired by TRW which in turn was acquired by Northrop Grumman.) I gained exposure to a wide variety of technologies and supported a diverse portfolio of clients. Notable among my achievements from this time is my leadership of the early development of the Electronic Data Gathering and Retrieval (EDGAR) system for the US Securities and Exchange Commission. This was one of the first electronic regulatory filing systems. I pioneered the use

of several innovative technologies for EDGAR including SGML markup (a predecessor to HTML), electronic filing via PC and integration of massive full text search capabilities into the desktop environment. I also supported major commercial clients including a leading global pharmaceutical company.

FOUNDER AND VICE PRESIDENT, INFORMATION SYSTEMS, INC — 1983 - 1985
VICE PRESIDENT R&D, FEROX MICROSYSTEMS — 1981 - 1983

I have entrepreneurial experience, having started my own software product development company, Information Systems Inc. I also was the chief programmer at another startup venture, Ferox Microsystems. My experiences at these firms gave me very early and valuable exposure to software engineering and development in a team setting. I developed several applications that had brief commercial exposure in the marketplace. Notable among these was a highly interactive game called President's Choice in which the player managed a simulation of the US economy in an effort to be reelected President.

CHIEF STATISTICIAN, ENERGY CONSUMPTION DIV, U.S. ENERGY INFORMATION ADMINISTRATION — 1978 – 1981

In the aftermath of the Arab Oil Embargo and energy crisis I joined the Energy Information Administration (EIA), a component of the US Dept. of Energy at the request of Lincoln Moses, a well-known senior statistician who was the Director of the EIA. I supervised the development of statistically valid national sample surveys of energy consumption, surveys that had never been done before.

ASST. PROFESSOR, PRINCETON UNIVERSITY — 1975 - 1978

ASST. PROFESSOR, UNIVERSITY OF TEXAS, SAN ANTONIO — 1973 - 1975

After finishing my PhD I joined the faculty of the interdisciplinary mathematics, computer science and statistics department upon the launch of UT San Antonio. At Princeton, I was a member of the faculty of Statistics pursuing a research program in mathematical statistics. I also had a joint appointment with the Center for Environmental Studies for which I was a contributor to a highly successful interdisciplinary investigation of energy consumption in the residential sector. This experience led to my appointment at the Energy Information Administration described above.

REPRESENTATIVE INDUSTRY AND COMMUNITY ACTIVITIES

- Chairman of the Northern Virginia Technology Council's (NVTC) 2017 and 2018 Capital Data Summit and chair of its 2016 Big Data Committee's subcommittee on workforce development
- Former Industry Chair of the Computer and Technology Industry Association's (CompTIA) New and Emerging Technologies Committee
- Former Chair of the Washington Exec Big Data Council
- Currently a Trustee of the Shakespeare Theatre Company of Washington, DC

EDUCATION

I hold a PhD in Statistics (1974) and an MS and BS in Mathematics all from Va. Tech.