STEVEN R. BRATT, PH.D.

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TECHNOLOGY EXECUTIVE: HEALTH, WEB, SUPPLY CHAIN

GLOBAL LEADERSHIP | INNOVATION | IMPACT

Senior Executive, holding Ph.D. from the Massachusetts Institute of Technology. Proven success building and leading organizations, achieving consensus in complex situations, serving on Boards, and driving change through technology on a global scale. Directing initiatives to create next-generation standards, technologies, and systems.

Diverse, Cross-Functional Experience: Industry (SAIC), Government (MITRE, DARPA) and Non-Profits (W3C, GS1, HL7)
Organizational Leadership: Start-ups, Growth, Change Management, Innovation, IT Strategy
Global Standards and Technology Leadership: Health, Web, Mobile, Retail, Logistics

PROFESSIONAL EXPERIENCE

ACI GROUP – TOWSON, MD / Orleans, MA 2023 – Present

Information technology consulting, providing value through resource solutions that help organizations reach objectives.

SENIOR ADVISOR

Strategic guidance and leadership for complex projects that require collaboration across organizations. Initially, leading the Program Management Office of a U.S. Federal Cancer Moonshot coalition of major industry, non-profit, and government organizations working to improve navigation, care, and research supporting pediatric cancer patients.

THE MITRE CORPORATION – Bedford, MA 2017 – 2023

Not-for-profit organization that operates research and development centers sponsored by the U.S. Government.

PROGRAM MANAGER, CODEX HL7 FHIR ACCELERATOR / LEADER, MITRE HEALTH STANDARDS AND INTEROPERABILITY GROUP

Research, prototyping, and strategy development to address critical challenges facing the United States and the world.

- Launched and led the CodeX HL7 FHIR Accelerator (https://CodeX.HL7.org). Driven by patients, care givers, providers, health systems, researchers, payers, regulators and vendors, CodeX is speeding interoperable data modeling and applications leading to step-change improvements in patient care, clinical trials, genomics, prior authorization and other use cases. Initial projects were in the oncology, cardiovascular, and genomics domains.
- Led and grew the Health Standards and Interoperability Group to support standards and technology initiatives across all Federal agencies that work in health domains, as well as internal research and development projects.

GS1 – Princeton, NJ / Brussels, Belgium 2012 – 2016

Building supply chain, healthcare, and Web standards for more than one million companies in 150 countries.

CHIEF TECHNOLOGY OFFICER / PRESIDENT, STANDARDS DEVELOPMENT

Directed 30 staff with $9M annual budget to lead standards and data systems development (international barcode system, RFID, global product data sharing, traceability), innovation, liaisons with other standards bodies, and corporate IT.

- Re-engineered GS1's standards process to make it best in class. Reduced time to develop standards from more than a year to between 6 and 9 months. Doubled number of companies participating in standards development (550 companies at year-end, 2016).
- Conceived and launched the GS1 Digital Initiative to leverage GS1 standards in the consumer-facing, online world.
- Launched the GS1 Innovation Network – an initiative unique among standards bodies. Served as President of the GS1 Innovation Board (including executives from Google, P&G, Walmart, JM Smucker, MIT).

WORLD WIDE WEB FOUNDATION – Geneva, Switzerland / Boston, MA 2009 – 2012

Non-profit start-up driving high-impact initiatives to connect and empower people through the Web.

CHIEF EXECUTIVE OFFICER

Launched the organization with Sir Tim Berners-Lee, inventor of the World Wide Web. Developed strategy and executed plans, working with US and Swiss Boards. Served in a combination of C-level functions (executive, operations, finance, and development).

- Secured $5M grant for the Foundation's launch, and an additional $8M for field initiatives. Initial donors included global foundations (Knight, Ford, Hewlett, Omidyar, Rockefeller), corporations (Google, Nokia, Vodafone), and institutions (European Commission, World Bank).
- Created and executed innovative field initiatives in Burkina Faso, Ghana, India, Kenya, Mali, and Senegal. Piloted voice-browsing services to enable people, even those with low levels of literacy, to create and access health, education, nutrition, and business information through the Web, using only voice commands via simple mobile phones. Trained mobile Web entrepreneurs in developing countries to create apps that meet basic needs. Enabled publication of government data on the Web to improve transparency, services, and commerce.
- Created the Web Index, the world's first measure of the Web's global economic, social, and political impact.

WORLD WIDE WEB CONSORTIUM (W3C) – Cambridge, MA 2002 – 2009

Global consortium of leading technology organizations dedicated to developing open Web standards and practices.

CHIEF EXECUTIVE OFFICER

Led all operational and financial functions, working with 2 Boards. Oversaw development of open standards by 1,500 technologists within 60 working groups. Directed staff of 60 experts coordinating work out of 20 global offices.

- Re-established financial viability through membership growth and cost controls, following period of budget deficits.
- Strengthened member relations. W3C's 400 members included: Apple, AT&T, Boeing, BT, Canon, Chevron, Cisco, Citigroup, Deutsche Telecom, Disney, Dow Jones, Eli Lilly, EMC, Ericsson, France Telecom, Fujitsu, Google, Hitachi, HP, IBM, Intel, Merck, MITRE, Nokia, Novartis, NTT, Oracle, Pfizer, RedHat, Samsung, SAP, Siemens, Toshiba, Vodafone.
- Launched and maintained standards work on HTML5, Web services, Web apps, semantic Web (linked data), mobile, voice, video, social networking, healthcare/life sciences, security, privacy, accessibility, and internationalization.
- Opened new offices in Brazil, China, India, South Korea, Senegal, and South Africa.
- Implemented the industry-leading patent policy and streamlined the process for exploring innovative concepts.
- Improved liaisons with over 40 national and international standards bodies.

COMPREHENSIVE NUCLEAR TEST-BAN TREATY ORGANIZATION (CTBTO) – Vienna, Austria 1997 – 2001

U.N.-affiliated organization founded in 1997 to detect and deter nuclear weapons testing around the world.

COORDINATOR, INTERNATIONAL DATA CENTRE DIVISION (IDC)

Appointed as the first Coordinator of the IDC, and member of the inaugural CTBTO executive team. Directed strategic planning as well as systems design and deployment with $25M annual budget. Oversaw information security and measurement-based quality assurance. Hired and managed 100+ staff members from 40+ nations.

- Transferred DARPA systems to build the world's most sophisticated, real-time, geophysical data collection and analysis system. Leveraged artificial intelligence, global data standards, big-data fusion, and human analysis systems to detect, locate and identify geophysical phenomena, including earthquakes, mining events, and possible nuclear explosions.
- Designed and installed the Global Communications Infrastructure – the first VSAT satellite system to cover the globe, providing Internet-based data collection from 321 sensors and Web-based product access for 100+ nations.
- Designed and built-out physical facilities ($11M), including 24/7 computing, situation, and media centers.

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY AND OFFICE OF THE SECRETARY OF DEFENSE – Arlington, VA 1993 – 1997

Agencies of the United States Department of Defense responsible for high-risk, potentially high-payoff technical research.

PROGRAM MANAGER, DARPA / PRINCIPAL PROGRAM DIRECTOR, OSD

Directed research and development program, executed by 100+ contractors, to improve U.S. and global nuclear-weapons-test verification capabilities and ensure treaty compliance. Funded and coordinated development of real-time sensor surveillance and intelligent data processing systems, including new data standards, global telecommunications, artificial intelligence, visualization, the Web, seismology, hydroacoustics, infrasonics, nuclear physics, meteorology, and satellite imagery. Supported the U.S. delegation to the Comprehensive Nuclear Test-Ban Treaty (CTBTO) negotiations in Geneva.

- Secured funding, which increased from $15M/yr to $40M/yr during tenure.
- Successfully demonstrated monitoring systems during multi-national experiments.
- The U.S. Ambassador stated that Dr. Bratt's briefings to international delegations did more to advance agreement on the CTBTO verification regime than any prior event.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION – San Diego, CA / Arlington, VA 1985 – 1993

Global systems integrator, with division supporting U.S. nuclear treaty verification programs.

ASSISTANT VICE PRESIDENT / DIRECTOR OF SYSTEMS AND SUPPORT

First hire in division that became the largest among all competitors. Directed 20 scientific and IT professionals to design, implement, operate, and improve global geophysical monitoring systems. The Intelligent Monitoring System integrated automated real-time artificial intelligence processing, interactive analysis, and decision support. Directed installation, operation, and successful testing of International Data Center (IDC) prototype during worldwide monitoring experiments. Coordinated international training, staffing, procurement, monitoring operations, and customer support.

ADDITIONAL BOARD AND ADVISORY ROLES

ENSCO, Inc. – Falls Church, VA, Member of the Board of Directors 2016 – 2017

GearSay, Inc. – Winchester, MA, Technical Advisor on startup, business models, technology 2012 – present

EDUCATION

Doctor of Philosophy in Geophysics – **Massachusetts Institute of Technology** – Cambridge, MA

Bachelor of Science in Geological Sciences – **Pennsylvania State University** – University Park, PA

Executive Management Program – **Harvard Kennedy School of Government** – Cambridge, MA

Leadership in a Democratic Society Program – **Federal Executive Institute** – Charlottesville, VA

AWARDS

- Guest Professor, Beihang University, Beijing, China (2007 – 2012)
- Exceptional Civilian Service, U.S. Department of Defense (1997)
- Outstanding Performance, Office of the Secretary of Defense (1993, 1994, 1995, 1996)
- Recognized Paper Award: Conference on Innovative Applications of Artificial Intelligence (1991)

OUTSIDE ACTIVITES

- Family, Running (20+ marathons), Golf, Music (keyboards), Travel