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SUMMARY

Accomplished research and technology professional with global achievement in academia and industry. Inter-disciplinary leader in development and growth through advanced discovery, organization, strategic planning and superior design.

- Nine years of administration and performance of university research projects. Management of commercialization and client development programs at a University of Illinois off-campus research and technology development center (TRECC).
- Industry - Experienced business and technology manager manufacturing and marketing products worldwide. Progressive senior administration, project management and engineering roles in full life-cycle development from concept, strategies, IP protection, manufactured design, regulatory compliance, partnering and distribution.

PROFESSIONAL EXPERIENCE

Current: Technology Research, Education and Commercialization Center (TRECC). National Center for Supercomputing Applications (NCSA). University of Illinois at Urbana-Champaign.

Senior Research Scientist www.trecc.org

- Emergent Communities. Building a \$30M+ research showcase sponsoring and demonstrating the most advanced applications of high-performance cyber-infrastructure.
- Enabling Technology. Consulting to evolving enterprise. Assistance, deployment and promotion of entrepreneurial technologies. Discovery and leveraging of funding, partnering and investment. Accelerator awards for commercialization of faculty research.
- Collaboration. Effective liaison of our prime research and program partnerships.

1999-2000: Electronic Visualization Laboratory (EVL). Department of Computer Science. College of Engineering. University of Illinois at Chicago.

Visiting Associate Director www.evl.uic.edu

- Research administration at the premier academic laboratory for advanced visualization and collaborative tele-immersive systems. Development contribution to Access Grid, AGAVE, AccessBot, Continuum and GeoWall.

1991-1999: Atlas Fire Science Products. Chicago, IL

General Manager

- Direction of a negligible product-line transfer that grew into an industry leading global supplier of standardized and specialty analytical test equipment.
- Integration of manufacturing, MRP, engineering and CRM systems. Recruitment and training of engineering and product teams for processes, software and service. Building of international manufacturing, sales and support teams.
- Negotiation of OEM product exports to Japan's building and regulatory industries.
- International standards development for ISO, ASTM and other compliance normatives.

1985-1990: MDA Scientific. Lincolnshire, IL
Senior Project Engineer

- Development of optics, mechanics, control and analysis hardware and software for multiple product applications. Design and tooling for high-volume manufacturing.
- OEM ventures opening impenetrable Asian markets; Japan's semiconductor industry, early (mid-80's) technology transfer of knowledge, instruments and licenses to China.

1983-1985: Medico Electronic. Chicago, IL
Chief Engineer

- Start-up biomedical company developing and manufacturing blood analyses and reagent systems for physicians and clinical applications.

EDUCATION

Master of Science. Biomedical Engineering. University of Wyoming.

Bachelor of Arts. Biology. University of Colorado.

SELECTED PUBLICATIONS

The Global Lambda Visualization Facility: An International Ultra-High-Definition Wide-Area Visualization Collaboratory. *Future Generation Computer Systems* 22 (2006). Elsevier B.V.

Building a Collaborative Bridge. *Emerging and Future Computing Paradigms and Their Impact on the Research, Training and Design Environments of the Aerospace Workforce*, NASA/CP-2003-212436. Hampton, VA. Mar 2004.

Fire Testing of Automotive Interior Trim Materials. *Automotive & Transportation Interiors Expo*, Detroit, MI. June 1999.

Combustion Toxicity Analysis: Advances Using a Specialized Sampling Technique for Fourier Transform Infrared (FTIR) Analysis. *International Symposium on Fire Science and Technology*. Seoul, Korea. Nov 1997.

A New Generation Cone Calorimeter: An Improved Tool for the Testing of Materials. *Fire Safety Advances in High Performance Plastic Products*; FRCA. San Antonio, TX. Mar 1994.

ORGANIZATIONS

Association for Computing Machinery (ACM) - SIGGRAPH

Institute of Electrical and Electronic Engineers (IEEE)

International Standards Organization (ISO)

American Society of Testing of Materials (ASTM)

Society of Automotive Engineers (SAE) - IFAI Transportation

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