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Objective

To lead an academic information technology organization committed to providing customer centric information technology services and infrastructure (administrative systems, networking, teaching/learning environments, and high performance research cyberinfrastructure) to administrators, faculty, and students.

2004-to Date

California Institute for Telecommunications and Information Technology (Calit2)
University of California, San Diego (<http://www.calit2.net>)

As Chief of Staff, I am a member of the executive management team with responsibilities for strategic planning, performance metrics, governing structures, and strategic initiatives.

2008-Date Chief of Staff

- Led the development of the Calit2 strategic plan to create a ten-year multi-campus, research agenda. Lead author and primary editor of final document.
- Created an outcomes based metric system to demonstrate performance of Calit2 to academic, private, and public sector partners. Implemented this system as basis for annual performance reporting.
- Led revision and implementation of Calit2 shared governance model.
- Developed partnership between Calit2 academics and facilities personnel at UC San Diego resulting in new research collaborations. Resulting ‘living laboratory’ test bed featured as cover story in Educause Review (Nov/December 2009).
- Managed the creation, and successful funding, of research proposals to the National Science Foundation (High Performance Cyberinfrastructure for Wildfires) and the Canada-California Strategic Innovation Partnership (Business Plan Development for Green IT Research Consortium).

2004-2008 Manager, Government Programs

- Created Research Intelligence project using data mining application programming interfaces (APIs) to identify faculty research strengths and new funding opportunities. UC San Diego adopted this platform for campus wide use in 2010. See <http://ric.ucsd.edu>
- Developed methodology to measure “effective bandwidth” for municipalities in California for the California Broadband Task Force. The final report may be found at http://www.calink.ca.gov/pdf/CBTF_FINAL_Report.pdf
- Managed development of various large-scale research proposals to federal funding agencies, including acting as Senior Personnel on National Science Foundation’s Major Research Instrumentation GreenLight Project. See <http://greenlight.calit2.net>

2001-2004

Information Technology at Purdue University (ITaP)

West Lafayette, Indiana (<http://www.itap.purdue.edu>)

Hired as Associate Vice President for newly created central information technology organization. Acted as Chief Operating Officer with additional responsibilities for strategic planning.

2001-2004 Associate Vice President for Strategic Planning and Operations

- Daily operational management responsibilities for a \$50M dollar unit (\$37.5M General Fund/\$13.2M Auxiliary) and 400 staff. Directed the Business Office, Human Resources, Facilities, and Project Management Office. ITaP's budget grew in each year of my tenure.
- Created the first IT Strategic Plan for Purdue University. This plan was developed in coordination with decentralized departmental information technology personnel and the Chief Information Officers of Purdue's regional campuses.
- Established the first Project Management Office in ITaP and spearheaded efforts to leverage university's academic offerings to train cadre of IT project managers.
- Developed, and successfully secured, external funding for Purdue's high performance computing resources through the National Science Foundation's Extensible TeraGrid Facility solicitation.

1994-2001

National Center for Supercomputing Applications (NCSA)

University of Illinois, Champaign, Illinois (<http://www.ncsa.uiuc.edu>)

Hired as an Education and Outreach Coordinator and advanced to the position of Assistant Deputy Director.

1999-2001 Assistant Deputy Director

- Supported the President's Information Technology Advisory Committee Subcommittee on Open Source Software and High End Computing. Lead author and editor for final report delivered to President Clinton in 2000.
- Managed operations of the fifty-institution National Computational Science Alliance, with a focus on fund distribution and required reporting under NSF's Partnership for Advanced Computational Infrastructure (PACI) program.
- Supported study group aimed at modernizing the Center's Industrial Partner program with accompanying responsibility for new program implementation.

1994-1999 Education and Outreach Coordinator

- Co-author of the technical networking white paper for the State of Illinois that led to the creation of the Illinois Century Network.
- Led the development team that created the first web site for the State of Illinois.
- Created the Illinois Learning Mosaic (ILM), an educational portal for K-12 educators. ILM was nationally recognized in the Progress and Freedom Digital State reports.

1992-1994

**Lieutenant Governor's Office
State of Illinois**

Hired as a Fellow and advanced to the position of Assistant to the Lieutenant Governor.

1992-1994 Assistant to the Lieutenant Governor of the State of Illinois

- Co-author of the first technology plan for the State of Illinois.
- Organized the Third State of Illinois Technology Summit bringing together public and private sector stakeholders to improve government services and education through the use of the World Wide Web.
- Developed the first web site for a public official in the State of Illinois.

Education

- Master of Science in Political Science, Eastern Illinois University, G.P.A. 4.0/4.0
- Bachelor of Science in Political Science, Eastern Illinois University, G.P.A. 3.9/4.0

Noteworthy Publications

- "Tool Tales: The Calit2 Research Intelligence Project", Soapbox Science: A Community Guest Blog from Nature.com, <http://blogs.nature.com/soapboxscience/2012/04/26/tool-tales-the-calit2-research-intelligence-project>
- "The Path Forward-Applications", Calit2 Internal Document, March 2010
- "Campuses as Living Laboratories for a Greener Future", Cover Article, Bill St. Arnaud, Larry Smarr, Jerry Sheehan, and Tom DeFanti, Educause Review, Volume 44, No 6, November/December 2009
- "Climate Change and Higher Education", Bill St Arnaud, Larry Smarr, Jerry Sheehan, and Tom DeFanti, Educause Review, Volume 44, No 6, November/December 2009
- "Research Intelligence: A Social Networking Toolset Supporting Multidisciplinary E- Science", ESCIENCE 08, Proceedings of the 2008 Fourth IEEE International Conference on eScience, IEEE Computer Society
- "Strategic Plan", Lead author and editor, Information Technology at Purdue (ITaP), September 2002
- "Developing Open Source Software to Advance High End Computing", Lead author and editor, President's Information Technology Advisory Council (PITAC), September 11, 2000

Recent Presentations

- "Digital Disruption and the 21st Century University", Invited Lecture, Texas A&M-Texarkana, October 4, 2011.
- "Green Information Communications Technology", Keynote, PROMPT Annual Symposium, November 15, 2010, http://promptinc.org/colloque2010/gallerie/index_en.html

- "Campuses as Living Laboratories for a Greener Future", ACUTA, July 20, 2010, <http://www.slideshare.net/calit2js/campuses-as-living-laboratories-for-a-greener-future>
- "The Research Intelligence Project", SemTech 2010, June 24, 2010, <http://semtech2010.semanticuniverse.com/sessionPop.cfm?confid=42&proposalid=2788>
- "How Your Network Can Reduce Your Carbon Footprint and Help Create a Greener Campus", Internet 2 Annual Meeting, October 9, 2009, <http://www.internet2.edu/presentations/fall09/20091006-green-sheehan.pdf>
- "Green IT Panel", Keynote, Summit 09, October 15, 2009, http://cybera.ca/files/videos/summit09_videos/Panel.mov

Advisory Groups

- Technical Advisory Group, GreenStar Network
- Smart2020 Initiatives Advisory Group, The Climate Group
- California Emerging Technology Fund, Board of Experts

References

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