SEAN MCPHERSON

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Career Objectives

To best utilize my experience by being responsible for various aspects of mission-critical data center and telecommunications facility design, implementation, operation and maintenance throughout the facility life-cycle while growing departments or businesses from project inception through product maturity.

Background

20 years of experience in design, implementation, troubleshooting, and maintenance of Energy-Efficient Data Center Operations and related IT systems, including LAN/WAN, Systems Administration, Backup/Restore/Disaster Recovery, Mission Critical Applications, Network and Physical Security, and N+1/N+N Facilities Management. Strong track record of staying with an employer to provide continuity of support and of improving operations through continuous development of skills, a demonstrated work ethic, and knowledge-transfer / team skill-building. Informally referred to as a "Geek Of All Trades" by friends and coworkers.

Applicable Experience

Regional Facility Engineer, Peak 10 — 2007-Present

Responsible for design, expansion and maintenance of 25+ data centers encompassing 300k ft^2 and 50 gross MW in 10 market. Facilities provide managed services to varied cabinets, open racks, and cages for both customer and company-owned equipment. Directed initiatives to lower PUE & raise real-world efficiencies using measured values and computer modeling. Directly responsible throughout the markets for the management, implementation and maintenance of Critical Power, HVAC, Fire Suppression, Security and the base facility/structure. Power Systems include implementation of medium to large (500 kW to 2.5MW) generators configured in both standalone and parallel N+1 operation for plants designed to exceed 15 MW in individual locations, providing power via open or closed-transition transfer switches for UPS implementations ranging from 75 kVA to 3 MW per site in standalone or parallel N+1 configurations. Variety of HVAC configurations based on geographic and site-specific impacts, including cooling systems using dozens of independent Floor-mounted 15-70 ton units attached w/ direct-piped refrigerant to outdoor condenser systems as well as large, cooling-plant based multiple-circuit chilled water or glycol hybrid condenser water systems in excess of 2,000 total system tons. Extensive experience with BMS and Monitoring, including Andover Controls, various BCMS implementations (PDI, Liebert), PowerLogic (CM3/4K, ECC21), and SNMP monitoring and alarming.

Director of Operations and Systems Engineering, Peak 10 — 2004-2007
Peak 10, another similarly-styled regional Data Center provider, acquired Xodiax in 2004, forming one of the Southeast's larger data center and managed services providers. In addition to expanded Operations duties for the Peak 10 facilities outside of Louisville, KY, performed roles such as Project Manager for several large accounts (billing in excess of $100,000 per month), trainer for incoming engineers and technicians, technical writer for both internal and customer-facing documentation on policies/procedures and proper practices. Assisted in creating the first Facility-Dedicated team within Peak 10.

Director of Operations and Systems Engineering, Xodiax — 2000-2004
Co-founder and Director of Operations of Xodiax, a Data Center and Disaster Recovery facility located in Louisville, KY. Participated in all design, strategy, venture-capital, and service-delivery activities to provide exceptional resources to an area where businesses had previously been forced to build their own data centers or depend on out-of-state service providers. Opened first 5,000 square foot facility and provided managed deployment of services to around 200 cabinets, open racks, and cages spaces of customer or company equipment. Company revenues quickly grew from $0 to $4 Million via 150+ clients in 5 years, creating first an EBITDA positive and then a profitable/cash-flow positive operation with low-debt overhead, all with a staff of around a dozen. In 2004, Xodiax was named the 16th fastest-growing privately held company in Louisville on Business First's "Fast 50" list as well as 85th on INC Magazine's "500 fastest growing companies".

Manager of Systems/Network Operations, Broadwing — 1994-1999
One of first dozen employees at NTR.Net (Louisville, KY-based ISP formed in 1994). By 1998, when the company was targeted for purchase by a national telecommunications carrier (IXC Communications), was responsible for all day-to-day operations of Customer-facing systems and networks of Louisville-based data center facilities. Expanded data center several times in a challenging, high-rise structure. Assisted in troubleshooting growth issues in IXC facilities in several states. Title became Manager of Systems/Network Operations, and IXC was later acquired by Broadwing. Responsibilities included managing the final-tier support staff for all internet, telecommunications, and ISP functions, as well as all implementation and maintenance of Louisville-based equipment and facilities.

Education and Certifications
University of Louisville (Speed School of Engineering, School of Business) — 1994-1997
Red Hat Linux (RHCE) — 1999, 2003
Linux Professional Institute (LPIC) — 2002

Skills

Facility Systems

- BMS (Andover Controls, Emerson Sitescan, Liebert Nform, Automated Logic)

- HVAC (CRAC/CRAH units from 2-70 tons, Economized condenser water loops and Air-cooled/Water-cooled chilled water plants to 2000+ tons)

- UPS (Standalone and clustered units from 100kW to 3+MW, including parallel monitored wet-cells and VRLA battery plants)

- Transfer/Distribution (PDU and Busbar architectures, Overhead and Below Raised Floor, Open and Closed transition ATS and ATC systems)

- Primary/Alternate Sources (Redundant utility sources, Primary-metered medium-voltage gear, individual transformer and bus equipment to 3750kW per pod, Standalone and parallel generator plants of 600kW to 15MW)

- Fire Suppression (FE25/FM200/Inergen/Legacy HALON systems in concert with or in place of wet pipe, dry pipe, or double-interlock pre-action systems)

- Access Control (Biometric/Card Access Controls, CCTV/DVR, Intercoms)

- CFD Modeling (Coolsim, TileFlow)

Operating Systems

- Linux (1992 through present, including Red Hat Enterprise Linux, Fedora Core, Debian, Gentoo, Mandriva, Novell/Suse, Ubuntu, SLS, Slackware, others)

- Microsoft (1986 through present, including Windows Servers NT3.51/NT4/2000/2003/2008/2012, Workstations 3.1/95/98/ME/2000/XP/7/8, DOS)

- Unix (1988 through present, including BSDi/Free-Net-OpenBSD, SGI/Irix, Sun/SunOS-Solaris, SCOUnix/Unixware-OpenUnix, HP/HPUX, AIX, OS X)

- Virtualization/Thin Client (VMWare, Parallels, Bochs, VirtualBox, Tarantella)

Database Systems

- Open Source (MySQL/MariaDB/PostgreSQL)

- Proprietary (Microsoft/Sybase)

Network Systems

- Switches/Routers/Firewalls/Load Balancers (Cisco/Juniper/Foundry/F5/Sonicwall)