

LARS RASMUSSEN

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INFORMATION SYSTEMS (IS) MANAGER

- ✓ Delivering Advanced Geospatial Intelligence (AGI) capabilities for 1700+ users by designing, implementing, and managing massive analytic systems and technology infrastructures for high-profile environments.
- ✓ Championing operational analytics by driving real-time information availability, accessibility, and reliability for mission critical decision-making utilizing surface modeling, mapping and imagery systems.
- ✓ Weaving technical capabilities into the fabric of the business to enable forecasting, problem solving, innovation, and organizational learning that helps to establish and achieve business goals.

Core Strengths in:

Planning & Management
Strategies • Data & Systems
Migration • Data Storage
User Access • Performance
Maintenance & Monitoring
Budgeting • Versioning
Disaster Recovery Planning

Certifications: MCSA • MCP • CCNA • CCA, Citrix MetaFrame Presentation Server 3.0: Enterprise Edition • Certified A+ Professional • Certified Network+ Professional • Certified Security+ Professional

PROFESSIONAL EXPERIENCE

DATA SOLUTIONS INTERNATIONAL CORPORATION, Seattle, WA

2004 – Present

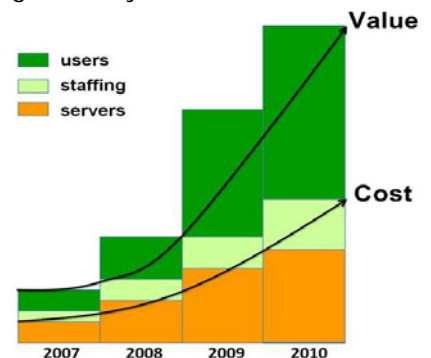
(Contractor with U.S. Marine Corps, Western Geospatial Data Center)
IT/Systems Manager 2004 – Present

Delivered exceptional growth in value across time and showed only modest increase in cost tracking during exponential data growth while building Regional Data Center “from the ground up.” Designed and implemented information systems for geospatial program and managed operations for hosting GIS data and applications for all Marine Corps bases in 11 states west of the Mississippi. Purchasing authority for 1.3 million.

Always maintained data availability between 99.98% – 100%, far exceeding Service Level Agreement at no added cost.

2004 → 2010

- 5 contract employees → 70+ contract employees
- 10 desktop users → 700+ ArcGIS desktop end-users via Citrix, 1000+ SharePoint and ArcGIS server end-users
- 5 physical servers → 80 physical servers
- 3 TB storage space → 230 TB storage space



Supported 1700+ end-users from novices to advanced GIS analysts, including software developers, database administrators, web application administrators, planners, firefighters, engineers, comptrollers, and directors.

Challenge #1: Reduce redundant cost of maintaining identical computer systems by consolidating GIS data sets and applications into one data center, and centralizing access to ArcGIS Desktops. Create a flexible infrastructure that rapidly scales for future growth, utilizing best practices and lessons learned.

Accomplishment Highlights for System Consolidation & Centralization:

- Thoroughly researched technology, industry standards, and best practices; designed an enterprise infrastructure that utilized Citrix technology to host ArcGIS Desktop (ArcMap & ArcCatalog).
- Responded to aggressive demand and increased need for IT resources by implementing distributed system architecture, expanding enterprise storage up to 230TB and upgrading software, hardware, and enterprise power equipment to meet innovation or demand shock.
- Executed technology roadmap by collaborating with procurement and legal officers, and negotiating with IT vendors to purchase \$3.2 million in hardware and software.

Talents Used: *Project and program management strengths: designing, implementing, and managing large enterprise systems.*

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PROFESSIONAL EXPERIENCE

Challenge #2: Reduce infrastructure maintenance, capital costs, and data center footprint, improve productivity of existing systems, expand storage capabilities, and speed up deployments.

Accomplishment Highlights for System Efficiencies:

- Implemented and managed high-availability storage infrastructure consisting of enterprise Fibre Channel storage area networks while using only 80% of budgeted funds.
- Planned and provided implementation oversight of enterprise case, virtualization infrastructure, combining VMware technology with scalable architecture and shared storage, serving thousands of virtual machines with live migration of virtual machines and virtual disk files.

Talents Used: *Strategic planning and tactical management; ability to comprehend high-level systems design, improvise with technology, and work with and coordinate skilled team resources.*

Challenge #3: Provide enterprise-level data protection and increase efficiency of backing up and restoring data.

Accomplishment Highlights for Business Contingency:

- Pioneered implementation of EMC Avamar that eliminated risk of data duplication in shrinking backup windows.
- Successfully drove backup initiative that improved data protection and reduced costs by eliminating duplicate file backups, decreasing time required to administer backup system, providing file image backups and single step recovery of virtual machines, and simplifying backup and recovery of large databases from 300GB to 2TB.

Talents Used: *Information storage at enterprise-level, making creative use of storage architecture, collaborating within team environment, and challenging assumptions and status quo after careful analysis and research.*

Challenge #4: Deliver decision support system for Western Regional Partnership (WRP) for production and development environment, providing end-users with a web map service and a collaborative platform.

Accomplishment Highlights for End-user Decision Support:

- Gathered system requirements and built a scalable infrastructure; on track to support 3000+ user base in 2011.
- Designed systems and network architecture, developing diagrams for support.
- Planned and coordinated deployment of ArcGIS Server by working closely with software developers and GIS analysts. Procured all software and hardware within very tight budget.

Talents Used: *Business needs identification and analysis; driving appropriate resources towards a solution.*

PUBLICATIONS

Published in leading industry publication, ArcUser Magazine, "Citrix Solved Hosting ArcGIS Applications" (tinyurl.com/GIS-article). Articulate speaker and compelling writer describes challenges of meeting application performance and GIS capability expectations in a centralized environment.

Presented paper at ESRI International User Conference, GIS Database Lifecycle Management at GEO*Fidelis* West

EDUCATION & CERTIFICATIONS

Bachelor of Arts in Computer Science, University of Washington, Seattle, WA
Associate of Arts in Geography, North Seattle Community College, Seattle, WA

Certifications: Microsoft Certified Systems Administrator 2003 (MCSA) • Microsoft Certified Professional (MCP) • Cisco Certified Network Associate (CCNA) • Citrix Certified Administrator 3.0 (CCA), Citrix MetaFrame Presentation Server 3.0: Enterprise Edition • Certified A+ Professional • Certified Network+ Professional • Certified Security+ Professional

Complete technology profile on page 3.

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TECHNOLOGY PROFILE

NETWORKS & OPERATING SYSTEMS

- Windows Server 2000/2003/2008 R2
- Disaster Recovery
- Virtualization
- Domain Name System (DNS)
- Simple Mail Transfer Protocol (SMTP)
- Inter-VLAN Routing
- Access Control List (ACL)
- Frame Relay
- Routing Information Protocol (RIP)
- Interior Gateway Routing Protocol (IGRP)
- Network Address Translation (NAT)
- Password Authentication Protocol (PAP)
- Firewall Implementation & Configuration
- OS Hardening & Security Audits
- Storage Area Networks (SAN)
- Dynamic Host Configuration Protocol (DHCP)
- Lightweight Directory Access Protocol (LDAP)
- Spanning Tree Protocol (STP)
- Trunking with ISL and 802.lq
- IP Routing
- Open Shortest Path First (OSPF)
- Border Gateway Protocol (BGP)
- Port Address Translation (PAT)
- Network Monitoring
- Active Directory Configuration and Implementation
- Transmission Control Protocol/Internet Protocol (TCP/IP)
- Enhanced Interior Gateway Routing Protocol (EIGRP)
- Challenge Handshake Authentication Protocol (CHAP)

APPLICATIONS / TOOLS

- Microsoft Internet Information Services (IIS)
- Microsoft Hyper-V 2008
- Microsoft SharePoint Portal Server
- Citrix Secure Gateway
- Symantec AntiVirus Server
- Veritas Backup Exec
- VMware ESX Server 3.5
- EMC Avamar
- EMC MirrorView/Asynchronous
- ArcGIS Desktop
- LMTools
- McAfee ePolicy Orchestrator
- Microsoft SQL Server 2000, 2005, and 2008
- Windows Terminal Services
- Citrix Presentation Server/XenApp
- Citrix Web Interface
- Veritas NetBackup Enterprise Server
- SolarWinds Orion NPM
- VMware vSphere 4.0
- EMC SnapView
- EMC Navisphere Manager
- ArcGIS Server
- Retina Network Security Scanner
- Microsoft Forefront Threat Management Gateway (TMG) 2010

HARDWARE

- EMC CLARiiON CX4-480
- EMC CLARiiON AX150
- EMC Avamar
- Silkworm SAN switches
- Cisco PIX
- Cisco Aironet
- APC InfraStruXure PDU 40kW
- Dell PowerEdge M1000e Blade Chassis
- HP ProLiant Enterprise Servers
- EMC CLARiiON CX3-20
- EMC CLARiiON AX100
- Brocade SAN switches
- Cisco ASA
- Cisco Switches
- IP KVM Switches
- APC InfraStruXure Central
- Dell PowerVault
- Dell PowerEdge Blade Servers & Dell PowerEdge Servers

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Information about Lars' primary project was readily available on the internet so I was able to extract great numbers that showed the growth in size and usage of the data center over time. I combined a columnar graph and a line graph to visually present this information. I didn't want to focus on server growth because that is of no value to an organization. For the Marine Corps, the value they received was the ability to perform operational analysis using geospatial analytics. It dramatically increased the number of analysts who had access to the information and it substantially improved the analyses they were able to do.

Lars had a lot of information to include that was relevant to what he wanted to do next. By segmenting his projects into the Challenges-Results format, I could improve readability while retaining a lot of information.

I incorporated his talents into each of these sections. This format gives the reader the context in which Lars used his strengths and it provides a venue for keywords. It also overcomes the challenge of recruiters and hiring managers who skip the career summary altogether.

Lars wants to stay within the geospatial environment in a management capacity so I incorporated his publications that demonstrate his writing abilities. I included 'Articulate speaker and compelling writer' in this section. I would traditionally include this in his career summary but that section was already full and including it in the publications section provides more space for an explanation— it creates a very compelling message.