

ALEX ZHILYAKOV

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Objective

Obtain an engineering position involving IT systems architecture, design, integration, and implementation.

Summary of Qualifications

- 10+ years of experience in architecture, design, implementation, and maintenance of IT systems
 - 17+ years of experience in systems and network administration, scripting, and troubleshooting
 - Communication skills to explain complex subjects, produce specifications, RFPs, training materials
 - Analytical skills to implement and analyze simulations, what-if scenarios, and proofs of concept
 - Project management experience
 - Creative problem solver, high degree of initiative
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Technical Expertise

- OS: Solaris, Linux / RHEL
 - Virtualization: Oracle VM, VMware
 - Storage: 3PAR, IBM, EMC, Brocade, ZFS, NFS
 - Networking: TCP/IP stack, switching, IP routing, Cisco
 - Databases: Oracle, MySQL, TimesTen, Netezza
 - High Availability: Sun Cluster, RHEL Cluster, Veritas Storage Foundation
 - Development: C, C++, Unix shell, SQL, Perl, TCL
 - VoIP: SIP, H.323, SS7, ISDN, Radius
 - Messaging: SMS, SMPP, MAP
 - Documentation: MS Office, HTML, PDF
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Education

- Master of Science in Applied Mathematics (1993-1999) - Ulyanovsk State University, Russia
 - Various training programs including Sun (Oracle), HP / 3PAR, Lucent, Cisco, and Genband
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PROFESSIONAL EXPERIENCE

2007 – Present: Principal Systems Engineer for iBasis, Inc. – Burlington MA

~ Third largest carrier of international voice traffic in the world ~

Technical lead for projects that require multi-disciplinary subject matter expertise.

IT infrastructure: responsible for 400+ servers, Solaris / Linux, SAN storage, backup in 5 datacenters across US and Europe. Managing a team of 3 system administrators.

Storage: performed capacity planning, vendor evaluation to replace 6 SAN storage arrays. Planned and supervised array installation and migration of the data. Designed and implemented solutions for data protection, business continuity, disaster recovery.

Data warehouse: defined and conducted multi-vendor proofs of concept to replace/upgrade existing data warehouse in line with business strategy and growth trends.

SMS messaging: lead role in integrating a new SMS platform with the existing network and systems. Defined architecture, requirements, and support process; supervised software development, integration, and service transition.

Voice-over-IP: Technical lead for calling card line of business. Translated stakeholder needs into system, network, signaling, software designs. Produced functional specs, test plans, acceptance, operational procedures. Managed software development, integration testing, and deployment. Supported business and finance units with data analysis and projections, business proposal development.

Consistently recognized as a high contributor. Received corporate Exceptional Achievement Award 3 years out of 8.

2003–2007: System / Network Administrator for Callcentric, Inc. – New York NY

~ Successful start-up in wholesale voice-over-IP ~

Responsible for maintaining VoIP network. Provisioned circuits, translations, dial-plan, routing tables on Nextone and Lucent soft-switches. Configured Cisco and Quintum SIP/H.323 gateways. Implemented optimal call routing. Provided troubleshooting and L2 support. Managed Unix servers and services in a highly available clustered environment.

Achieved a significant reduction in operational costs by developing real-time quality and resource allocation controls and automating most provisioning tasks. Developed unique methods, which allowed raising call quality and establishing Callcentric as a top-quality provider for certain routes. Created new product offerings by integrating different VoIP hardware and software packages.

2001–2002: System/Network Administrator for Beta International, Inc. – New York NY

Managed Cisco gateways and gatekeepers, Harris TDM switch. Provisioned H.323, SS7, ISDN interconnections. Implemented centralized call authentication for Cisco and external call routing logic for TDM switch, allowing faster changes in call routing tables. Developed IVR applications and integrated them with the existing billing system. Managed Unix, Internet-related services. Maintained redundant IP connectivity with BGP and OSPF.

1995–2000: System Administrator for Electrosvyaz – Ulyanovsk, Russia

~ First Internet service provider in the region ~

Responsible for the everyday operations of this regional Internet provider. Designed network infrastructure, provisioned PPP, HDLC, Frame Relay connections. Maintained IP routing with BGP/OSPF protocols. Deployed remote points of presence for dial-up and broadband Internet access. Set up 3COM and BayNetworks network access servers and Cisco core routers. Configured Unix servers providing Radius, authentication/accounting, Web, DNS, Email, Internet News, and Chat services. Trained junior staff.