Senior Systems Engineer

Job Scope

The Senior Systems Engineer is responsible for designing, implementing, and maintaining complex systems and infrastructure. This role involves working closely with cross-functional teams to gather requirements, develop technical solutions, and ensure the efficient operation of systems. In addition, the Senior Systems Engineer plays a key role in planning, deploying, and optimizing critical systems to support the organization's objectives.

Responsibilities

- System Design and Architecture: Lead the design and architecture of complex systems, considering scalability, performance, security, and reliability. Collaborate with stakeholders to gather requirements and translate them into technical specifications and system designs.
System Implementation and Deployment: Plan and execute the implementation and deployment of systems, including hardware, software, and network components. Configure, install and integrate systems to ensure proper functionality and compatibility.
System Administration and Maintenance: Monitor and troubleshoot systems to ensure optimal performance and availability. Perform regular system upgrades, patches, and updates. Implement system security measures and data backup strategies.
System Integration and Interoperability: Integrate systems with existing infrastructure, applications, and databases. Ensure seamless interoperability and data exchange between systems. Collaborate with software developers, network engineers, and other stakeholders to address integration challenges.
Performance Monitoring and Optimization: Monitor system performance and identify areas for improvement. Conduct performance analysis, capacity planning, and tuning activities to optimize system performance and resource utilization.
System Documentation: Create and maintain comprehensive documentation, including system configurations, technical specifications, user guides, and operational procedures. Ensure documentation is up-to-date and accessible to relevant stakeholders.
Technical Support and Issue Resolution: Provide advanced technical support and troubleshooting for system-related issues. Investigate and resolve complex problems, escalating to appropriate teams when necessary. Coordinate with vendors for support and warranty services.
System Security and Compliance: Implement and maintain security controls and measures to protect systems and data. Ensure compliance with industry standards, regulations, and best practices regarding system security and data privacy.
Project Management: Lead or contribute to system-related projects, including upgrades, migrations, and infrastructure expansions. Define project scope, develop plans, and manage resources to deliver projects on time and within budget.
Mentoring and Knowledge Sharing: Mentor and guide junior engineers and team members.

LIGHTING | ELECTRIC | SMART CONTROLS | TECHNOLOGY | SIGNS

Share knowledge, best practices, and industry trends to foster continuous learning and development within the team.

Requirements

- Bachelor's degree in computer science, information technology, or a related field. Advanced degrees or certifications (e.g., Microsoft Certified Systems Engineer – MCSE, Cisco Certified Network Professional – CCNP) are advantageous.
Proven experience as a systems engineer or in a similar role, with a focus on designing and implementing complex systems.
Strong knowledge of system design principles, architectures, and best practices.
Proficiency in system administration and configuration of operating systems (e.g., Windows, Linux), virtualization technologies, and cloud platforms.
Experience with network infrastructure, protocols, and security principles.
Familiarity with system monitoring and performance tuning tools.
Solid understanding of system integration techniques and interoperability considerations.
Strong problem-solving and troubleshooting skills, with the ability to analyze complex issues and propose effective solutions.
Excellent communication and interpersonal skills to collaborate with cross-functional teams and stakeholders.
Project management skills, with the ability to lead projects and coordinate resources effectively.
Knowledge of system security practices, data backup strategies, and disaster recovery principles.
Continuous learning mindset and staying updated with emerging technologies and industry trends.