



WILL AI REPLACE ME?

Systems and Networks Engineer

Information Technology, Telecommunications, and Security

AI has made significant strides in network monitoring, management, and issue resolution. It's increasingly used to detect and correct quickly network anomalies or security threats. However, the design and administration of infrastructures still require a deep understanding and adaptation to the specific needs of the business. AI can augment these tasks but might not fully replace human expertise, especially when it comes to making strategic decisions about network architecture and infrastructure planning.

Automation degree: 53.33%

Significant Impact of AI on the Job

53.33%



Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »). The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Design, install, and manage the company's network infrastructures.	Significant
Diagnose and solve problems related to systems and networks.	High
Ensure the security and regular updating of systems and equipment.	High

Impact on skills

At-risk Skills ↓	
Analyze server and network activity.	Tools can detect anomalies, monitor load, bandwidth, real-time response times. They can generate detailed reports and alerts based on defined thresholds. With AI and machine learning, these systems can also predict potential issues or upgrade needs before they occur. This reduces the need for constant human intervention for daily monitoring.
Define formats, methods, and storage locations.	The growth of Storage as a Service (STaaS) and the increasing adoption of automated storage solutions mean that determining storage needs, managing expansion, and even detecting and correcting errors can be largely automated. Additionally, with systems like Software-Defined Storage (SDS), allocation and reallocation of storage resources can be managed dynamically without direct human intervention.
Future-proof Skills ↑	
Conduct organizational audit interviews.	Despite advancements in AI and automation, human interaction, especially during in-depth discussions and interviews, remains an essentially human skill. The ability to ask questions, interpret non-verbal responses, adjust questioning based on context, and sense the organizational atmosphere cannot be easily automated.
Design a strategy for system and network development.	Designing a strategy requires a holistic, long-term vision, an understanding of business goals, and the ability to align technology with these goals. While tools can assist in data analysis or scenario modeling, the art of strategy requires the ability to anticipate market evolution, changing business needs, and how technology must evolve to support these needs.

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