



## POSITION DESCRIPTION

### NETWORK SECURITY ENGINEER

**Company: Axxera Inc**

**Location: Irvine, California**

**Responsibilities include:**

- Identifying emerging vulnerabilities and evaluating associated risks and threats
- Encrypt data transmissions and set-up firewalls to conceal confidential information while protecting data from cyber threats.
- Maintain and administer perimeter network security systems such as firewalls, Switches, wireless routers and Axxera's web hosting and email solutions
- Develop plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs
- Create Security Test Labs including Honeypots and Virtual Machines to catch malicious hacker IP's, domains all over the world.
- Set-up Virtual Private Networks with appropriate security policies and roles.
- Analyze wireless infrastructure for security weakness and effectiveness. This includes in-depth understanding of wireless protocols, encryption techniques and their weakness.
- Strong understanding of Security Incident and Event Management Solutions (SIEM) in order to implement, analyze and modify the SIEM solution
- Monitor access of data files and establish security policies to prevent unauthorized access
- Execute Vulnerability assessment, Denial of Service assessment and Penetration testing on Client sites and prepare recommendations and solutions addressing their needs
- Perform analysis of Network & Security needs and contribute to design, integration, and installation of hardware and software
- Analyze malicious software for Buffer Overflow attacks
- Understand, maintain and monitor Anti-virus solutions along with reports of found viruses.
- Analyze security policies to incorporate new software, or individual access rights.
- Analyze malware codes written in C/C++ and place necessary restrictions to prevent these threats
- Implement 2 factor authentication solutions like RSA Secure ID
- Execute wireless penetration testing on client environment
- In-depth understanding of Operating Systems (kernel, memory handling, multi-threading, etc.), in order to harden them from a security perspective, analyze security attacks and find ways to prevent them
- Participate in tier 1 and tier 2 Network & Security operations support
- Review violations of computer security policies and do the necessary to prevent the violations from repeating



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- Analyze security events raised by Security Incident and Event Management tool. Review them and if needed coordinate with end-customer and help them resolve the security breach/risk
- Analyze packets and have a strong understanding of TCP/IP protocol stack
- Perform regular risk assessments and execute security tests of data processing system to ensure required security standards and policy compliance.
- Analyze Security Incident and Event Management correlation algorithms and design more efficient ones
- Delegate with several teams regarding security issues in order to help them make programming changes, assess security violations and access needs.
- Analyze distributed systems and Cloud infrastructure for security flaws.
- Train users and promote security awareness to ensure system security and to improve server and network efficiency.
- Articulate customers' business and technical objectives and transform it into technical solutions
- Coordinate implementation of computer system plan with establishment personnel and outside vendors.

### Education Requirements:

- Masters' Degree in Computer Engineering

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