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Building R13
UNSW Randwick Campus
22 King St
Randwick NSW 2031

All correspondence to:
PO Box 4304
Castlecrag 2068
NSW Australia

IT NETWORK AND SYSTEMS ENGINEER

POSITION: IT Network and Systems Engineer
FUNCTION TEAM: Production and Engineering Manager
LOCATION: Randwick, NSW.

The Company

Ocius Technology is an Australian company that builds autonomous Uncrewed Surface Vessels (USVs). These USVs use the energy of the weather - sun, wind, and waves, to act as persistent monitoring and communications platforms. We are embarking on an ambitious program of building and deploying multiple USVs for operations around Australia and beyond.

The Function

The team is responsible for maintaining network hardware and software, monitoring network performance, and troubleshooting issues to ensure minimal downtime.

The Role

The role of the Network and Systems Engineer works to support a multidisciplinary engineering team in the delivery of a complex ICT-based Systems. The role will design, implement and maintain systems and services. This role requires a deep understanding of network infrastructure, security protocols, and the ability to manage and optimize complex IT environments.

Key Responsibilities

Network Architecture and Management

- Design, implement, and manage complex network infrastructure involving satellite, cellular, WLAN and mesh radio technologies.
- Implement network security, segmentation, and monitoring.
- Troubleshoot network issues and optimize network performance.

Automation and Scripting

- Develop and implement automation to improve operational efficiency and reproducibility.
- Use tools such as Ansible, PowerShell, or Python to automate routine tasks.

IT Systems Management

- Administer and maintain servers, storage, and backup systems.
- Manage virtualization technologies and cloud-based services.
- Oversee the installation, configuration, and maintenance of software and hardware.
- Configure USV Systems and support USV Operations

Documentation

- Create and maintain comprehensive documentation for networking configurations, IT procedures, and troubleshooting guides.

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- Develop technical manuals and user guides for internal teams.

Demonstrated Experience

Advanced Technical Proficiency

- Ability to communicate effectively with team members, stakeholders, and clients.
- Ability to convey complex technical concepts in a clear and concise manner, facilitate productive discussions, and resolve conflicts. .
- Working in a degree of independence while managing diverse problems that require critical thinking and problem solving before making decisions.
- Evaluate the outcomes and impacts of solutions and record lessons learned.

Problem Solving, Critical Thinking and Evaluation

- Minimum of 5 years of experience in network administration and IT systems management.
- Experience with remote systems, IoT, telemetry or power-constrained environments a plus.
- Strong knowledge of networking protocols, routing, firewall management, and security best practices.
- Experience with Linux administration and networking.
- Proficiency in scripting languages such as Python, PowerShell, or Bash.
- Familiarity with cloud services (AWS, Azure, Google Cloud).
- Experience in documentation with evidence of existing practice.
- Relevant certifications (e.g., CCNA, CCNP, CompTIA Network+, CISSP) are a plus.
- Bachelor's degree in computer science, Information Technology, or related field (or equivalent experience).

Collaboration and Communication

- Effective communication, collaboration, and the ability to work with cross functional teams.
- Work closely with the Network Architect and Engineering teams to ensure alignment with strategic goals.
- Collaborate with other departments to understand and address their IT needs.
- Stay updated with the latest industry trends and technologies.
- Ability to work well in a fast-paced and dynamic environment where initiative is required for success.

Research, Innovation and Continuous Improvement

- Evaluate and own the impacts of the design and take ownership for improvements.
- Develop safe and sustainable solutions.
- In adherence to legal and ethical considerations, make decisions in collaboration with stakeholders and team members.

Project Management and Time Management

- Often working on complex projects with multiple stakeholders, deadlines, and competing priorities. proficiency in project management, estimate project timelines, allocate resources efficiently, and adapt to changing requirements.

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Essential Requirements

- Australian Citizen.
- Ability to obtain and maintain a minimum of Defence Security Clearance–NV1.