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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

SENIOR SOFTWARE ENGINEER

POSITION: Senior Software Engineer
FUNCTION TEAM: Engineering
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 collaborating to **design, build, and maintain software applications**. These team members work in unison, bringing together diverse talents and expertise to achieve a common goal: the development of high-quality software for the delivery of world class autonomous vessels.

The Role

As a result of growth, we have opportunity for a senior software engineer to work in a team to build software architecture, monitor and test software and upgrade existing systems. The role will develop software solutions and handle the development and maintenance of software applications.

Key Responsibilities

Software Design and Development

- Staying abreast of contemporary concepts within the software development industry.
- Engaging in product development and brainstorming with team members.
- Apply the company's software development policies and culture among employers.
- Interact with product management to obtain and understand requirements and deliverables and develop test plans.
- Software design, development, integration, and validation for autonomous vehicle control, device management, navigation, communications, and related applications.
- Researching and developing various software solutions by consulting with users, investigating problem areas and adhering to the SDLC
- Ensure software is scalable and maintainable to support the next generation of autonomous systems.
- Conducting system analysis and recommending changes in technical processes to improve software operations

Collaborating with teams to deliver sophisticated engineering outcomes

- Collaborate with cross-functional, multi-disciplinary teams to develop innovative solutions in defence technology.
- Developing and designing an existing portfolio of applications and services.
- On occasion, participate in remote watchkeeping of the USVs when at sea.
- Compiling, analysing and summarising information regarding development and service issues

Leadership

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- As a senior member of the team, create a culture of safety, customer centred so that Ocius delivers on the mission.
- Contribute to the establishment and growth of the software team. Provide mentorship and coaching to software engineers to ensure they understand the organisational processes and technologies.
-

Demonstrated Experience

Advanced Technical Proficiency

- As a senior software engineer, deep technical expertise is essential. This includes mastery of programming languages, frameworks, and tools relevant to your domain.
- A strong understanding of data structures, algorithms, and software architecture principles is crucial for designing scalable and efficient solutions.
- C++/JavaScript/Python development experience.
- Demonstrated ability to develop on Linux, Windows, and embedded systems.
- Willing to learn diverse technologies and codebases on the job (Ardupilot, AWS, CAN, javascript, devops etc).
- Experience working with autonomous vehicles and real-time systems and mission-critical applications.
- Bachelor's degree in computer science or engineering.

Problem Solving, Critical Thinking and Evaluation

- 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.

Leadership and Mentorship

- Demonstrated experience leading, supporting and or mentoring team members.
- Effective communication, collaboration, and the ability to mentor others are crucial skills
- Capable of providing constructive feedback, sharing knowledge, and fostering a positive and productive work environment
- 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

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- 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.

Essential Requirements

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