



Position Profile: Software Systems Architect  
Competition Number: AU201005  
Business Unit: Engineering  
Reports To: Director, Software Engineering  
Location: Brisbane, Australia  
Date: **December 4, 2009**

### **Purpose:**

Reporting to the Director, Software Engineering, the primary responsibility of this position is to design the high-level software architecture for all Hemisphere GPS software applications. The Software Systems Architect is responsible for the development of the overall vision of the software architecture, the planned solution, and its implementation into a final product.

### **Responsibilities:**

- Design and development of software architecture and software system specifications
- Long-term strategic responsibility for the company's software architecture, platform design, integration, modularity and maximizing code reuse
- Promoting informed discussion on architectural matters leading to a thorough understanding by software development team
- Reviewing software designs and implementation to ensure they meet architectural requirements
- Assist project managers with planning, in particular in the area of prioritizing, throughout an extended product lifecycle and work with Technical Product Manager to distill detailed requirements from customer input and market research
- Survey landscape and market for solution insights, direction, vendors and methodologies
- Ensuring that all code is developed according to design architecture, documented procedures and practices
- Promoting the software technical standards including coding standards, tools and platforms
- Work as part of a team
- Perform tasks as specified by the Director of Software Engineering and/or VP Engineering
- Adhere to the Hemisphere GPS Quality Management System
- Contribute to the improvement of development systems and processes to ensure efficient and effective work procedures are maintained and/or improved
- Code development and documentation in accordance with the Hemisphere GPS coding standards
- Contribute to the innovation and advancement of Hemisphere GPS products

### **Education and Experience:**

- Degree in Software Engineering, Mathematics or Physics
- 10+ years experience within multiple software development environments and complex systems integration
- Architectural design experience within multiple projects through the entire Systems Development Life Cycle (SDLC)
- Postgraduate qualifications in related field, desirable but not essential

### **Demonstrated Competence in the following:**

- Systems Thinking - the ability to see how parts interact across the entire platform
- Interpersonal and technical leadership skills
- Ability to explain complex technical issues in a way that non-technical people may understand
- Comprehensive knowledge of hardware, software, application, and systems engineering
- Project and program management planning and organizational skills
- Demonstrated ability to operate in a fast paced development environment



- Demonstrated experience to work in a team on different tasks in parallel
- Excellent written and verbal communication skills
- Demonstrated experience developing software

**Desired Experience:**

- Experience working with positioning sensors including GPS receivers, Inertial systems, LIDAR and Vision Systems
- Experience with or understanding of real-time control systems
- Experience working with hydraulic control systems

**Behavioral Competencies and Skills:**

- Results orientated
- Strong product or commercial focus
- Excellent analytical and interpretation skills and attention to detail
- Ability to express ideas clearly and logically
- Ability to work under pressure and to tight time frames
- Excellent organization and time management skills
- An ability to share and communicate ideas both verbally and in writing to all technical stakeholders
- Realistic approach to problem solving while maximizing the use of the company's range of products and services

**Apply**

- Send Resume to [careers@hemispheregps.com](mailto:careers@hemispheregps.com)
- **Please quote competition number AU201005**
- No phone calls please

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