



Hemisphere GPS has an exciting opportunity for a talented Control Engineer with experience in designing control algorithms for machine control applications to join the Software Engineering team in the company's Brisbane office. Reporting to the Manager, Control Team, you will be responsible for the effective and professional development and maintenance of machine control systems and algorithms.

The responsibilities of the role include:

- Design and validate control systems for the control of ground based vehicle guidance systems
- Develop and document quality control systems and control software implementations to user and functional requirements within specified timeframes
- Work in a team to design, test, and develop software written in C++ on an embedded platform
- Perform tasks as specified by the Development Manager and Project Manager
- Adhere to the Hemisphere GPS Operating Plan
- 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 Robotics Engineering, Mechatronics Engineering, Control Engineering, Mathematics or Physics
- Postgraduate qualifications in related field, desirable but not essential

Demonstrated Competence in the following:

- Designing and specifying a feedback control system from sub-system specification through to implementation and testing
- Demonstrated experience developing kinematic and dynamic mathematical models in MATLAB and Simulink
- Demonstrated ability to operate in a fast paced development environment
- Demonstrated experience to work in a team on different tasks in parallel
- Possess working knowledge of GPS and inertial navigation
- Excellent written and verbal communication skills
- Demonstrated experience developing software

Desired Experience:

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

Behavioral Competencies and Skills:

- Results orientated
- 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 organisation and time management skills

Hemisphere GPS is an Equal Opportunity Employer