

Job Specification

Position	Software Engineer / Software Developer
Reporting to	Product Development Team Leader
Purpose of Role	<p>This software engineer position will be focused on the development of Brigade's latest collision avoidance systems. The candidate will need broad knowledge of the software development process and of the relevant technologies.</p> <p>The role is based in the Product Development team, which is responsible for upgrades and product introduction, development & verification of Brigade's product portfolio.</p> <p>This position will be predominantly in system development, requiring good software skills, understanding of the performance trade-offs in an embedded system and general data processing and analysis skills. The role involves the application of new technologies for active safety products to keep Brigade's product portfolio competitive and enhance its cost effectiveness. As part of the Engineering Department the successful candidate will also be required to interact with the Quality team and Applications team, as well as communicating information internally, to ensure product releases are successful.</p> <p>The role will be primarily within a small innovations team tasked with delivering new, active safety products for Brigade. The applicant will be required to have a proactive and flexible approach, taking on a variety of tasks such as embedded system integration, sensor characterisation and field testing in addition to the core role. The applicant will ideally have knowledge of automotive technology including standards and quality controls which are key to ensuring Brigade's product quality standards are met.</p>
Key Responsibilities	<p>Functional:</p> <ul style="list-style-type: none"> • Development and management of codebases from research environment through to product release. • Performance optimisation and benchmarking of embedded systems. • Development and use of simulation and optimisation software. • Evaluation and field testing in line with requirements and engineering specifications. • Product verification and validation. • Preparation of detailed documentation. <p>Technology:</p> <ul style="list-style-type: none"> • Object-oriented programming • Processing sensor data • Version control tools • Embedded systems

Working Relationships	<ul style="list-style-type: none"> • Team working and co-operation with all colleagues • Direct communication with and support to colleagues • Debating and selecting the best engineering solution in a team setting • Participate in team meetings, training courses and workshops • Building and maintaining relationships with suppliers and consultants • Close links with staff developed and maintained to meet corporate objectives • Required to always present a positive and professional image
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Person Specification

Essential	Desirable
Education and Training <ol style="list-style-type: none"> 1. Bachelor of Engineering in Software, Electronic, Computer Science or similar Alternative educational background combined with solid professional experience 2. High level of numeracy and literacy 	<ol style="list-style-type: none"> 1. Masters or PhD in Software Engineering, Electronic Engineering, Computer Science or similar
Experience and Skills <ol style="list-style-type: none"> 1. 3 years' professional experience 2. Programming experience: <ul style="list-style-type: none"> - At least one of MATLAB, Python or C++ - Second programming language 3. Writing clean, stable, reusable code, version control tools 4. Code optimisation and debugging 5. Work with embedded systems 6. Knowledge of software development lifecycle 7. Experience working in a team 8. Experience organising own work 	<ol style="list-style-type: none"> 1. 3 years' industry experience with embedded systems 2. Code optimisation on an embedded system 3. Software/hardware integration 4. Reporting development progress to stakeholders 5. Integrating and working with sensors, preferably in an embedded context 6. Experience with obstacle detection sensors and/or sensor fusion 7. Interest in automotive systems

<p>Personality and Motivation</p> <ol style="list-style-type: none"> 1. Self-motivated and takes full responsibility for the quality of own work 2. Methodical approach 3. Attention to detail 4. Capable of prioritising tasks 5. Shows intuition and ability to make decisions independently where appropriate 6. Able to work to deadlines 7. Eager to learn 8. Natural respect for colleagues 	<ol style="list-style-type: none"> 1. Comfortable with practical work to manufacture and install prototype systems
<p>Interpersonal Skills</p> <ol style="list-style-type: none"> 1. Good level of communication skills with the ability to communicate effectively with customers, management and colleagues (clear spoken English is critical) 2. Helpful and approachable 3. Able to adhere to agreed clean code standards 	
<p>Other requirements</p> <ol style="list-style-type: none"> 1. Shows capability in managing own time and priorities 2. Flexibility to take on a range of different tasks from field testing and sensor characterisation through to embedded coding 3. UK driving license 	