

Job title:	Software Engineer
Department:	Software Team
Reports to:	Software Team Leader
Responsible for:	Embedded Software Development
Location:	Dennis Eagle Warwick
Hours of Work:	37 hours per week
Closing date:	

Our values:

We are part of the Terberg Environmental Group that has roots going back to 1869, part of the larger Terberg Group that is still family-owned. With family values at our core, we operate honestly and with integrity. We aim to represent our core values in all areas of our work. Our core values are: Customer Focus, Entrepreneurial Spirit, Flexibility, Innovation, Integrity, Quality and Sustainability.



Job Purpose:

As a Software Engineer you'll design, develop, and test embedded software, focusing on creating software functionality and features based on specific requirements. You'll develop control systems for vehicle functionality and conduct comprehensive testing through model, software, hardware-in-the-loop, and vehicle-based methods.

Main Duties and Responsibilities:

- Software development of an electric vehicle application.
- Utilisation of MATLAB/Simulink for software development of an electric vehicle.
- Utilisation of software tools to verify code coverage and software structure.
- Support the implementation of a set of tests in software that enable the requirements to be tested and reported upon.
- Assist with Cyber Security and Functional Safety analysis, implementation and testing.

Accountabilities & Commitments Required:

- Working in a team to deliver production intent embedded software against tight project driven deadlines.
- Use industry standard best practice for software architecture and coding.
- Support vehicle commissioning and testing when required, occasionally off site at test facilities.

Quality & Environmental Responsibilities:

Responsible for the management, compliance and upkeep of the quality & environmental procedures, records, and documents relevant to the role.



At Dennis Eagle we are proud to be an equal opportunities employer and a disability confident organisation. We are committed to fostering an inclusive workplace where diversity is celebrated. As part of our dedication to creating a supportive environment, we guarantee to interview all disabled applicants who meet the minimum criteria for the vacancy. We invite you to engage in an open conversation with us about how we can best support you and ensure that your unique skills and talents are recognised and valued. Your success is integral to our collective growth, and we look forward to working together to create a workplace that empowers everyone to thrive.

If you have any queries or would like to apply for the role, please contact the Recruitment team recruitment@dennis-eagle.co.uk



Criteria	(E)ssential / (D)esirable
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Knowledge	
• Requirements capture from stakeholder to implementation	E
• Understanding of the V model	E
• Knowledge of ISO26262 & ISO21434	D
• Knowledge of ASPICE	D

Experience	
• Automotive development of software & control systems into a production environment	E
• Highly skilled in Model Based programming languages	E
• Familiar with vehicle communication protocols such as CAN	E
• Prototype / Production vehicle commissioning, testing, calibration and debugging	E
• Software development for hybrid / electric vehicles	D

Education / Qualifications	
• Minimum qualification a Degree in Engineering (or equivalent)	E
• 5 years industrial experience	D

Job-related skills & abilities	
• Well-developed problem solving techniques with excellent attention to detail	E
• Ability to work within a team and communicate technically on complex subjects	E
• Ability to work to tight timescales	E
• Experience with embedded software debugging & calibration tools	E
• Knowledge of Functional Safety concepts	E
• Knowledge of Cyber Security concepts	D
• Knowledge of version control systems and software release processes	D
• Knowledge of automotive diagnostics protocols	D
• Knowledge of toolchain setup	D
• Understanding / appreciation of software architectures and low level programming languages	D
• X-in-the-loop development	D

Other requirements	
• Occasional overtime	E
• Occasional overseas travel	E
• Engineering support /off site visits	E
• Visits to other companies for engineering integration	E

Please note that you may be asked to carry out tasks other than the above that are deemed by your manager to be appropriate, reasonable and within the remit of your role. You will be expected to carry out these ad hoc tasks as requested.

Employee name _____ Employee signature _____ Date _____

Manager name _____ Manager signature _____ Date _____

