

Job title:	Systems Design Engineer
Department:	Engineering
Reports to:	Engineering Manager (Systems)
Responsible for:	n/a
Location:	Dennis Eagle Warwick Site
Hours of Work:	Mon-Fri (with flexi and hybrid working option)
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:

Systems engineering design, development, validation and implementation for Dennis Eagle vehicle platforms

Main Duties and Responsibilities:

- Systems engineering based development for vehicle platforms
- Stakeholder function and feature capture including applicable regulation and standards
- System requirement development and documentation
- Creating vehicle systems architectures and topologies
- Lead multi system integration including communication, electrical, & mechanical aspects internally and with suppliers
- Generating electrical interconnection schematic diagrams
- Create supporting documentation for production and aftermarket
- System and vehicle start up, commissioning and fault finding
- Input into DVP for feature function, systems, vehicle performance and their acceptance requirements
- Support the implementation of tests procedures that enable validation and verification execution and reporting
- Support software & testing team with validation activities, including on vehicle
- Review test outputs to confirm system/vehicle performance acceptance

Accountabilities & Commitments Required:

- Able to communicate effectively with all levels within the company (written / verbal).



- Able to communicate effectively with external suppliers / customers.
- Demonstrable team skills as a member and a leader.
- Open, honest and timely reporting of tasks.
- Able to coach and mentor others in new topics
- Aware of wider business issues where priority conflicts arise

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	
• Detailed working knowledge of a wide range automotive systems	E
• Broad knowledge of systems interfacing, communication and integration	E
• Requirements capture & management from stakeholder through implementation and functional testing	E
• Understanding of the 'V' development model	E
• Working knowledge of a applicable electrical engineering principles	E
• Experience/ability to generate electrical interconnection schematic diagrams	E
• System start up and commissioning	E
• Hands-on approach to rig and vehicle based systems testing (DVP driven)	E
• Development of heavy or yellow or other off highway products	D
• Knowledge of applicable regulations & standards	D
• Systems engineering experience on similar products or business	D
• Has conducted risk & impact analysis	D
• ISO26262 system design & Functional Safety	D
• Development of automotive control systems	D
• Knowledge of CANbus protocols	D

Experience	
• 2-3 years industrial experience	E
• 5 years industrial experience	D

Education / Qualifications	
• Minimum qualification degree in relevant engineering subject	E
• Member of recognised engineering institution, e.g. IEE, IMechE	D

Job-related skills & abilities	
• Able to communicate technically complex subjects to wide ranging audiences	E
• V model validation methods	E
• DVP&R (Design validation plan & report) generation	E
• Able to fault find and rectify system issues	E
• Able to work to tight timescales & maintain appropriate level of detail	E
• Positive Open and approachable attitude	E
• Strong team work ethic	E
• Ability to act on own initiative, proactive, generates solutions and makes decisions	E
• Can manage personal workload and timescales against multiple tight project objectives & deliverables	E
• Clear communicator	E
• Takes accountability	E
• Systems modelling tools	D
• Vehicle diagnostics tools	D
• Training and coaching in engineering disciplines	D
• Well-developed problem solving-techniques	D
• Demonstrates leadership	D
• Coaches and develops others	D
• Can supervise support engineers	D



Other requirements	
• Occasional overtime	E
• Occasional overseas travel	E
• Ability & willingness to travel throughout the UK	E
• Engineering support /off site visits including test facilities	E
• Visits to other companies for engineering integration	E
• Leading a team based design activity such as requirements capture, impact analysis, preliminary project scoping, FMEAs, Risk analysis	D

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 _____

