



DRIVING THE FUTURE OF ELECTRIC VEHICLES

We are the world leader of in-wheel motors for passenger cars, light commercial vehicles and future transport solutions.

Protean Electric is an automotive technology firm with over 100 talented people globally. Our mission is to drive sustainable transport through innovation, and we are the imagination behind vehicles that travel further, perform better and use fewer components.

We believe that freedom of ideas, integrity of response, desire to improve, and collaborative thinking drive innovation. Joining Protean means working with talented experts across the organisation who value your ideas, empower you to make a difference, and encourage you to challenge yourself and others.

Senior Systems Engineer
Farnham, UK

The Role

We are seeking the right individual to join our Systems Engineering team.

Main Duties & Responsibilities

The role of Senior Systems Engineer is a supporting role in the System Specification for the next generation of Protean's innovative In-Wheel Motor products.

This role works with other more senior members of the team to help apply the ISO 26262 Functional Safety and ISO 21434 Cybersecurity standards to our product portfolio. The ideal candidate will have degree in systems engineering, or related engineering discipline and have worked in the automotive or equivalent industry in a Systems Engineering Role.

The role requires the application of structured systems-engineering methods to define, analyse, and refine the end-to-end architecture of complex products. This includes developing clear system requirements, supporting architectural trade-off studies, and documenting the rationale behind key technical decisions. The position will involve the use of modelling and analysis tools to represent system behaviour, evaluate interfaces, and ensure coherent integration across hardware and software domains. The role will also contribute to verification planning and system-level problem solving to maintain alignment between the intended design and the delivered solution.

As the role will include responsibility for the specification of parts of the system, candidates with experience of requirements management tools are preferred.

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As the project enters its later stages, the role will support design verification through the specification of test cases and the review of test results.

This role also requires a strong expertise and practical experience of cybersecurity and application of ISO 21434.

The role will involve on-the-job training to help expand to the required skill set. This will include training in the main toolsets (Sparx EA, Siemens Polarion, MATLAB Simulink, Jira, Confluence, SVN). Candidates with previous experience of any of these tools are preferred.

Reporting, Location & Travel

This role reports to the Functional Safety & Systems Manager and has no direct reports. The role is based in Farnham, Surrey.

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Support stakeholder requirements analysis
- Assist in functional analysis and development of system, hardware and software requirements
- Requirements baseline management, traceability and verification
- Execution of analyses to confirm compliance to requirements
- Production of relevant safety work products including specifications and reports
- Work with other engineering disciplines to develop robust technical solutions and maintain Architecture definitions and trade-off analysis
- Analyse test results, support change management and provide dispositions on non-compliances
- Contribute to risk assessment and contribute ideas to improve schedule and/or reduce cost

Relevant Skills & Competencies

We welcome and encourage behaviours in line with our 'Values in Practice:

- **Will to Win:** we succeed by delivering to customers; on time, on quality and on cost
- **Pioneering:** we are passionate about the technology
- **Courageous:** we face our challenges
- **Working Together:** we can rely on each other and others can rely on us
- **Personally Responsible:** we do what needs doing, when it needs doing
- **With Integrity:** we are honest, open and respectful

Successful candidates should be able to demonstrate the following relevant skills and competencies:

- Excellent interpersonal skills
- A good communicator
- Strong problem-solving skills
- Attention to detail
- Drive for continuous improvement
- Successfully present technical information
- Ability to self-motivate and work under pressure and time constraints with minimal oversight

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Relevant Knowledge & Experience

Candidates should assess their suitability against the following essential and/or desirable relevant knowledge and experience:

Essential:

- Degree in a relevant engineering discipline
- Demonstrable experience in Systems Engineering
- Demonstrable experience in Functional Safety (ISO 26262 or similar)
- Demonstrable experience in cybersecurity (ISO 21434 or similar)
- Deriving, analysing and managing requirements
- Defining and developing systems architectures and performing trade-offs
- Able to work as part of a multi-function team
- Proactive approach to working and learning
- Successfully presents technical information

Highly Desirable:

- Experience in the automotive industry
- Member of INCOSE
- Understanding of high-power electric and hybrid powertrains
- Familiarity of UML/SysML modelling languages and tools
- Knowledge of MATLAB and Simulink
- System verification and testing experience

If you'd like to apply, please send a copy of your cv along with the role you'd like to apply for over to ukjobs@proteanelectric.com.

