



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.

Systems Engineer (6m contract)

Farnham, UK

The Role

We are seeking the right individual to support our Systems Engineering team during architectural definition and detailed design lifecycle phases on our next generation of Protean In-Wheel Drive. This is a contract role with a 6-month duration, with possibility to extend depending on business needs.

Main Duties & Responsibilities

The primary responsibility of this role will be to support the definition of System Requirements and Architectural Design according to Parts 4, 5 and 6 of ISO-26262. The ideal candidate will have previous experience working within the automotive industry, defining architectures, interfaces and desired behaviours for safety-critical systems. The position requires significant experience writing requirements specification and in-depth knowledge of Model Based Systems Engineering (MBSE) techniques; specifically the usage of SysML. Experience of Sparx Enterprise Architect and Siemens Polarion are also highly desirable, although equivalent tool chains are also considered beneficial.

As a member of the Systems team, the Systems Engineer will be required to collaborate with other teams to meet the company's goals and targets.

Reporting, Location & Travel

This role reports to the Systems Engineering Manager and has no direct reports. The role is based in Farnham, Surrey with occasional requirement for national and international travel, primarily to Europe.

Issue Date: October 2019



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Key Responsibilities

Responsibilities include, although are not limited to the following:

- Stakeholder requirements analysis
- Functional analysis and development of system, hardware and software requirements
- Requirements baseline management, traceability and verification
- Execution/co-ordination 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
- Contribute to risk assessment and contribute ideas to improve schedule and/or reduce cost

Relevant Skills & Behaviours

We value and measure ourselves against the following 'Best-Self' Behaviours:

- Pioneering
- Driven
- Tenacious
- Collaborative
- High Integrity
- Responsible

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

- A good communicator with excellent interpersonal skills
- 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

Relevant Knowledge & Experience

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

Essential:

- Experience of SysML and Model Based Systems Engineering methodologies
- Familiarity with Sparx Systems Enterprise Architect, IBM Rhapsody or similar UML/SysML tool
- Familiarity with ISO 26262, IEC 61508, DO-178B or similar safety standards
- Proven experience of systems design for embedded systems in industries such as Automotive, Aerospace, industrial control or Communications
- Deriving, analysing and managing requirements
- Defining and developing systems architectures and performing trade-offs
- Able to work as part of a multi-function team
- Successfully presents technical information

Desirable:

- Familiarity with Siemens Polarion
- Experience of Safety Analyses (including FMEA, FTA and DFA)
- Enterprise Architect extension writing and document generation
- Familiarity with APIS and Isograph Reliability Workbench FT+
- Knowledge of Matlab and Simulink
- System verification and testing experience
- Experience of hardware and software development for safety related systems
- Familiarity with Automotive SPICE or similar process model
- Experience of electric motors and the associated control systems
- OEM/Tier 1 experience
- Experience working with high power electric and hybrid powertrains



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Should you wish to apply for this role, please e-mail your CV, covering letter and salary expectations to: ukjobs@proteanelectric.com – please be sure to **quote the full Job Title in the subject line** and read our Privacy Notice.

Thank you for your interest, we wish you every success with your application.

