![Protean logo]

Software Engineer
Farnham, UK

Protean Electric is an automotive technology firm. Our mission is to drive sustainable transport through innovation, and we are looking for the best people to join us and help stay ahead of the competition.

Working with us is your opportunity to become an expert in your field and to join us in setting world-class standards in design and production quality. Diversity and inclusion are fundamental to our approach. We know that teams who share one vision whilst drawing from a range of diverse backgrounds and experiences are the most innovative.

Working here means enjoying a fast paced, dynamic and collaborative environment. Our challenges require innovative solutions and provide a unique opportunity to shine and grow with the company.

We value and measure ourselves against these "Best Self" behaviours:
- Pioneering
- Driven
- Tenacious
- Collaborative
- High Integrity
- Responsible

If you decide to apply for the role, please email your CV, cover letter and salary expectations to: ukjobs@proteanelectric.com. It is important that you **quote the full Job Title in the subject line.**

Thanks for taking an interest in joining us and please see the specific details below:

The Role
We are seeking the right individual to join our Software & Systems team.

Main Duties & Responsibilities
The primary responsibility of this role is the development of firmware for Protean's in-wheel motors. This includes the development of requirements, modelling of the software design using Model Based Systems Engineering (MBSE), implementation of firmware, and verification activities. As a member of the software team, the Software Engineer will be required to collaborate with other teams to meet the company's goals and targets.

Key Responsibilities

Include, although are not limited to the following:

- Define, develop and review software requirements with particular emphasis on functional safety
- Create software architecture designs using SysML
- Create software unit designs using SysML
- Implement and review software source code in C
- Assist in the development of Automotive SPICE and ISO 26262 development processes

Note: Candidates without SysML experience will be considered provided they can demonstrate relevant software development skills in other areas. In this case, appropriate training will be provided.

Relevant Skills	Relevant Knowledge & Experience
- Ability to write and analyse software requirements - Excellent analytical skills for modelling structural and behavioural aspects of the software design - Development of embedded C working at the hardware/software interface level - Strong coordination, organisation and communication abilities - Ability to work under pressure and time constraints - Successfully present technical information	- Good technical degree in engineering or science - Fluent in technical English - Proven experience of software design for embedded systems in industries such as Automotive, Aerospace, Industrial Control or Communications using a formal development process - Knowledge of UML/SysML using Sparx Enterprise Architect, IBM Rhapsody or a similar tool - Familiarity with process-driven development, ideally ISO 26262, IEC 61508, DO-178B or similar safety standards - Experience in developing Automotive SPICE or CMMI compliant processes - Experience of software development in an AUTOSAR environment