



PROTEAN

Principal Control Systems 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 a Principal Control Systems Engineer to take a lead role in specifying and developing control systems within our Vehicle Controls team.

Main Duties & Responsibilities

The Vehicle Controls Team is responsible for developing vehicle-level control systems which allow the unique capabilities of our in wheel motor technology to be demonstrated and tested to maximum effect, both in internal and customer funded vehicle projects. This currently includes development of torque vectoring strategies, traction control and ABS, with full stability control and brake-by-wire integration planned for the future.



Control system development will start in simulation and final testing will take place in vehicles developed and built by us. As Principal Control Systems Engineer you will define, coordinate and support activities to develop these systems. The role will involve occasional travel to global destinations (EU, US, CN primarily).

Key Responsibilities

Include, although are not limited to the following:

- Designing, implementing, verifying and validating vehicle level controls systems including traction control, ESP and advanced vehicle dynamics.
- Electric Vehicle System architecture design and project management.
- Defining and implementing software development processes, moving towards adoption of ISO26262 and associated documentation and validation needs.
- Specifying and undertaking software testing on HIL, dyno and on vehicle.
- Reporting and presenting of work progress and outcomes.
- Collaborating with others to plan, design, develop and test.
- Supporting in vehicle system integration.
- Analysing and resolving technical problems.

Relevant Skills	Relevant Knowledge & Experience
<ul style="list-style-type: none"> • Ability to produce and understand technical documentation • Open mind and can-do attitude • Proactive • Communications and customer/supplier liaison • Hands-on approach • Team and goal oriented 	<p>Minimum:</p> <ul style="list-style-type: none"> • Technical degree in software, electronics, controls or automotive engineering • Relevant post-graduate qualifications • 3 years of relevant experience • Experience of CAN based communications and diagnostics • Understanding of Hybrid and Electric Vehicles and challenges involved with their development • Extensive experience of MATLAB/Simulink development environment • Experience with vehicle dynamics and vehicle-level control systems design, implementation and calibration • Fluent English speaker <p>Desirable:</p> <ul style="list-style-type: none"> • Electrical or Mechanical system design • Second language (Mandarin-Chinese preferred, or other European)

