



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 Electronics Engineer (Embedded Control)

Farnham, UK

The Role

We are seeking the right individual to join our Electronics Design team.

Main Duties & Responsibilities

The Senior Electronics Engineers are the key detailed designers for the electronic projects in the in-wheel motor range. They are also responsible for designing and executing the test and validation programs for their designs, including management of external test bodies.

Reporting, Location & Travel

This role reports to the Electronics Manager, the role is based in Farnham, Surrey with an occasional requirement for some national and international travel, including to China.

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Full life cycle design from initial concept through to productionisation
- Embedded control and digital systems design
- Sensor selection and analogue interfacing
- Simulation, calculation and circuit design
- Writing design specifications and reports
- Driving validation and verification activities
- Presentation in design reviews

Cont/...

Key Responsibilities Cont/...

- Work in accordance with Protean's Electronics Team Processes as well as Development Process and Business Management Process
- Supporting manufacturing activities in UK and China

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:

- Pragmatic problem solving
- Attention to detail
- Innovative lateral thinker
- Hands on
- Strong communicator
- Drive for continuous improvement

Relevant Knowledge & Experience

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

Essential:

- Good degree in Electronic Engineering or similar
- Strong experience in design and analysis of embedded microprocessors
- Test and evaluation of electronics systems
- Electrical and thermal modelling and simulation
- Multiple journeys through complete development lifecycles
- Design for EMC and analysing and rectifying compliance issues
- Design for Manufacture
- Design for Functional Safety to ISO26262 (ideally ASIL D)

Desirable:

- Familiarity with Texas Instruments or Infineon safety micro processors
- Experience in an automotive OEM or Tier 1 supplier
- Familiarity with relevant automotive legislation, standards and guidelines
- Calculation of component stress and de-rating and reliability estimation
- Experience of VHDL on FPGA
- Some familiarity with C programming
- Familiarity with Mentor Graphics PADS and DxDesigner (Altium also desirable)
- Experience of using and applying DFMEA



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Employee Benefits

In return for a rewarding and fulfilling career, all Employees can look forward to receiving a competitive salary, plus a number of additional employee benefits:

- **Core hours:** we offer a flexible approach to working hours, with core hours available to all Employees, requiring them to be in the office between 10:00 and 16:00 each day, from Monday to Friday. This provides Employees with the flexibility to start work, and finish work at a time that is convenient to them providing a little more freedom to take into account the journey to work and family commitments.
- **Discretionary Bonus:** Employees are eligible to receive a discretionary bonus of up to 15% of annual salary; this is paid annually and is subject to meeting set agreed targets.
- **Life Assurance:** Employees are automatically enrolled into the company's Life Assurance scheme; this provides the sum of four times annual basic salary in the event of death during employment.
- **Pension Scheme:** Employees are automatically enrolled into the Company's Group Personal Pension Scheme, with the company matching contributions from a minimum of 5% up to a maximum of 7%.
- **Private Healthcare:** subject to completion of probation, Employees, their partners and dependents, are able to join the company's private healthcare scheme with BUPA, in addition to an accompanying cash plan with BHSF.
- **Learning & Development:** Employees are encouraged to continue their career development with a variety of training courses and development opportunities available to them, including the offer of learning Mandarin.
- **Relocation:** we are able to offer a relocation package to assist Employees and their families when relocating to within a designated distance/duration from the company's offices.

Full details of the Employee Benefits are available upon request, or will be made available on provision of an offer of employment.

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.

