

JOB DESCRIPTION

Job role	Lead Software and Controls Engineer
Location	Role based at Hypermotive's Engineering Office in Lutterworth, Leicestershire. Occasional periods working offsite within the UK, EU or worldwide.
Reports to	Engineering Director / Chief Technical Officer
The Company	
<p>Hypermotive are a well-respected and dynamic engineering and manufacturing business, focussed on the e-mobility transport. Hypermotive specialise in the design and tier 1 manufacture of high and low voltage power distribution systems and wiring harnesses for sectors including automotive, motorsport, commercial vehicle, rail, marine and aerospace. We are also recognised as one of Europe's most experienced hydrogen fuel cell system integrators.</p> <p>Joining Hypermotive would make you a key part of a highly experienced, engaged and dedicated team - delivering a wide range of projects at the cutting edge of e-mobility and zero-emissions technology.</p>	
The role	
<p>As head of the Software and Controls team, the Lead Software and Controls Engineer will be responsible for the design, development, delivery, and testing of model-based software and/or embedded code across a variety of projects. Your role will include maturing the existing control system design processes, with a particular focus on functional safety for projects moving towards production.</p> <p>You will work across a range of sectors (including commercial vehicle, marine, off-highway and rail), focussed on the development and integration of energy storage, conversion, and distribution systems. Your input will directly contribute not only to the successful delivery of the project and support the success and growth of the business but also pioneer the decarbonisation of transport and other energy intensive technologies.</p> <p>Within this role, you will be responsible for all aspects of the software design across the engineering lifecycle. This will include:</p> <ul style="list-style-type: none"> • Supporting generation and management of requirements from both the external and internal customers • Adherence to relevant design standards and engineering design process • Maturation of engineering design process with a focus on functional safety and product development • Ensuring a coherent design development between hardware and software • Generation of model-based software using MATLAB Simulink • Generation of embedded code, typically in C • Code unit testing and debugging • Systems commissioning and calibration <p>You will work closely with the other functions within the Engineering team to ensure right first time, on-time delivery of the project within budget. You will support design review, team, supplier and customer meetings as required and seek to resolve any issue assigned to you in a timely manner.</p>	

Education and Skills Requirements

Educated to degree level in Software Engineering or other relevant discipline
10+ years' experience in relevant role and industry

Skills and experience required:

- Experience in leading a software and controls team within a relevant industry
- Experienced in Matlab, Simulink and Stateflow toolchains
- Experience of C low level driver development
- Experience of interfacing embedded control with real-world hardware such as sensors and actuators using a variety of protocols including I2C, SPI and CAN
- Able to work across project types from proof of concept through to production

Skills and experience desired:

- Working knowledge of automotive standards and processes for software such as AutoSAR, MISRA-C,
- Working knowledge of the implementation of ISO26262 or DO178B/C within a product-based business
- Experience of automotive series production software development

Personal attributes:

- Effective manager of people
- Customer focussed
- Flexible attitude
- Good written and verbal communications skills
- Team player
- Self-motivated
- Proactive approach to work
- Able to multi-task across several projects at one time

Hypermotive can offer:

- Interesting, varied and challenging work
- Good rates of pay and generous holidays
- Wide range of projects across multiple sectors
- Very flexible working arrangements
- Pension, healthcare and other benefits