

JOB DESCRIPTION

Job Role	Systems Engineer / Senior Systems Engineer / Principal Systems Engineer
Location	Role based at Hypermotive's Engineering Office in Lutterworth, Leicestershire. Remote working (e.g. from home) for up to 2 days per week. Occasional periods working offsite within the UK, EU or worldwide.
Reports to	Chief Engineer - Systems, Safety & Certification
The role	
<p>Hypermotive are a dynamic, rapidly growing engineering and manufacturing business in the eMobility sector. We are a highly experienced, friendly, and enthusiastic team, and offer a working environment that is fast paced yet fun, with a strong commercial focus.</p> <p>A key member of the Hypermotive Systems, Safety & Certification Engineering team, the Systems Engineer will be responsible for the derivation and management of requirements for engineering projects, concept design using calculations and computer simulations, detailed design to applicable standards, regulations and customer requirements, and design validation & verification. Your deep systems knowledge should be used to implement a level of AI automation to key tasks.</p> <p>You will work on highly varied projects, across a wide range of vehicles and applications (marine, automotive, defence, space, rail, supercar, motorsport, commercial vehicle, off-highway, stationary power, etc.), focusing on the development and integration of fuel cells, fuel storage, energy storage and electrical systems. Your input will directly contribute not only to the successful delivery of the project, but also support the success and growth of the business.</p> <p>Within this role you will provide Systems Engineering support across the entire engineering V-cycle. Your responsibilities will include:</p> <ul style="list-style-type: none"> • Engaging with customers and other key stakeholders to support the generation of project requirements, • Documentation, communication and subsequent management of all project requirements across the project team • Review, understand and negotiate any trades in conflicting or unrealistic requirements, • Requirement traceability showing how requirements are intended to be met and then evidence of meeting requirements • Derivation and decomposition of requirements into sub-functional requirements, • System architecture and design • Verification and validation test plan derivation, • Supporting final system integration, commissioning and testing, • Customer technical support, • Project/product life cycle management. • Development of ePowertrain simulation models including electrical, mechanical and control systems, • Utilising AI to reduce the time taken to conduct key tasks whilst maintaining or improving quality of outputs. <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</p>	

and customer meetings as required and seek to resolve any issue assigned to you in a timely manner.

Alongside this, you will support the development and roll-out of Hypermotive's quality processes and supporting tools associated with your work and build Hypermotive's engineering capability to support business growth.

Education and Skills Requirements

Educated to degree level in engineering or other relevant discipline,
5+ years' experience in relevant role and industry.

Skills & Experience Required:

- Systems engineering experience in marine / automotive / fuel cell / transport / defence industry,
- Knowledge of, and experience of working to, marine and/or automotive and/or defence engineering standards and processes,
- Appreciation of safety, type approval and certification, including functional safety (IEC 61508, ISO 26262), and other relevant standards & legislation,
- Experience of working in a customer-facing environment,
- Experience in working on the delivery of time-pressured projects.

Skills preferred:

- Experience in working in a product development environment,
- MATLAB, Simulink and Stateflow toolchains,
- Systems modelling and simulation,
- Model-based software code development,
- Complex system testing and commissioning,
- HARA/HAZOP/HAZID, FMEA, FTA and similar risk/fault based analyses,
- ELM / Requirements management tools (e.g. DOORS, Polarion, Codebeamer),
- Systems architecture definition.

Personal attributes:

- Flexible attitude,
- Good written and verbal communication skills,
- Process-driven approach,
- 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 across a range of sectors,
- Good rates of pay and generous holidays,
- Highly flexible working arrangements,
- Pension scheme,
- Healthcare scheme.