Job Description

Role Title: Control Systems Engineer

Reporting to: Control Systems Chief

Role Purpose

A skilled Control Systems engineer, with experience developing whole vehicle models to support control software development, testing and validation. This is a hands-on role for an engineer who enjoys designing and implementing control software & simulation models, as well as the creative problem solving, and testing required to ensure they function as intended.

Key Responsibilities

- Design, implement and test (utilizing MIL/SIL/in-vehicle validation) control software using a model-based development approach.
- Design, implement and correlate BEV & HEV component and vehicle models for component sizing and performance analysis.
- Support the transition of control systems software to clients.
- Support prototype vehicle builds and development (on client sites when necessary).
- Write relevant specifications, requirements and test plans / reports.
- Maintain good relationships with customers.
- Evaluate the impact of work delays, interruptions or changes in plans to develop an appropriate course of action.
- Seeing projects through from conception to handover.

Qualifications, Experience and Skills Required:

- A degree or similar in engineering.
- A minimum of 5 years relevant industry experience.
- Experience in automotive control systems design, ideally working on BEV/HEV projects.
- Detailed control systems/ plant models design, implementation, and validation experience.
- Experience in writing system and software specifications, requirements & test documents.
- Ideally sound experience with any of the rapid prototyping controllers (dSPACE, Motohawk, Raptor, Pi Innovo, etc.)
- Experience with software version control tools, requirements management, software change request (SCR) management.
- Familiar with electrical debugging on vehicle, e.g. LV harnessing, continuity checking, isolation checking, etc.
- Familiar with vehicle performance, economy, emissions and driveability attributes/trade-offs.

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- Proven track record in the effective delivery of technical objectives to quality and time targets.
- Comfortable working closely with clients, often on-site at client locations.
- Enthusiastic about learning new disciplines and expanding current technical and project knowledge.

System or Knowledge

- Advanced capabilities in Microsoft Office and applications.
- Experienced user of MATLAB/Simulink/Stateflow for embedded control system design and validation, along with a familiarity with powertrain modelling.
- Experience with CCP & CAN based tools, e.g. INCA/CANape and CANalyzer.
- Experience and knowledge of whole vehicle electrical systems (high and low voltage).
- Understanding and application of industry and legal standards relating to control systems.

Personal Attributes

- Self-motivated, creative, and adaptive team player.
- Willingness to take on roles, responsibilities and challenges required to achieve company goals and objectives.
- Excellent problem solving and analytical skills.
- Excellent planning skills.
- Able to prioritize and organize project workloads, schedules, and tasks.
- Strong presentation, report writing and communication skills.
- Strong internal self-motivation.
- Able to work well under their own initiative, but also as part of a team.

Location and Travel:

- You must be eligible to work in the UK and have no restrictions for world-wide travel.
- This role is based at our Head Office in the Midlands, with flexibility for remote working.
- Working hours are 0900 to 1700, including 30-minute paid break 5 days a week, however frequent travel is expected, and flexible working patterns are essential to the role.