

Controls and Calibration Job Specification

About ULEMCo

Where other companies are planning their carbon emission initiatives for the future, ULEMCo exists to make a difference now.

A Liverpool-based spin out of Revolve Technologies founded in 2014, ULEMCo specialises in converting vehicles to enable them to run on commercially available hydrogen, allowing fleet managers to reduce their carbon emissions to ultra-low levels. While purely electric vehicles may offer a more environmentally solution to petrol and diesel engines, they are not feasible as a long-term, fix-all solution as their range is a constant concern. ULEMCo is actively progressing to a more sustainable alternative.

ULEMCo is aiming to continue to target commercial fleet conversions over the next 18 months with a fast-growing team.

We are looking for two Controls and Calibration Engineers to join our team, who will be responsible for the troubleshooting and resolving electronic and control system issues within the build and test of machines. The role will involve developing and evolving complex software models to deliver control features and verification and validation of these features.

Job Description:

Job title: Controls and Calibration Engineer

Salary: Competitive (dependent on experience)

Location: Liverpool

Key Responsibilities:

- Development and evolution of complex software models using MATLAB/Simulink to deliver control features for the target products
- Verification and validation of control features as part of the development process
- Troubleshoot and resolve electronics / control system issues encountered during build and test of machines

Skills and Experience:

Essential:

- Strong technical background (good technical degree preferred in mechanical, electronic, electrical, control systems or automotive engineering) though other qualifications / experience will be considered
- Real time Embedded Software Development experience
- Auto-code generation and debugging on target hardware
- Debugging of software on real time controllers
- Proven MATLAB/Simulink and Stateflow experience

- Ability to translate technical requirements and objectives into production-ready software models
- Prior experience in control software development, gained in vehicle or construction equipment control or an associated environment
- Excellent communications skills

Desirable:

- Variant/ calibration data management experience
 - An understanding of fixed-point data typing
 - Familiarity with embedded C/C++ code for real time control systems
 - Knowledge of vehicle network protocols (e.g., CAN, J1939 etc.)
 - Knowledge of Calibration/Diagnostic tools (e.g., ATI Vision/ INCA, CANalyser etc.).
 - Knowledge of / prior experience of developing software to meet functional safety requirements (ISO 26262, AUTOSAR, A-SPIICE etc.)
 - Knowledge of software version control systems (GIT etc.)
 - Experience working on whole-vehicle/machine systems.
 - Knowledge and experience for proficiency in full V-Cycle – modelling, requirements capture / management and test case generation
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Interested in applying? Please send current *curriculum vitae* to: Jobs@ulemco.com