

POSITION: BMS Application Engineer/Sr. Engineer

LOCATION: Frankfurt or Saarbrücken, Germany

ABOUT SVOLT:

SVOLT is a Greentech company committed to reduce global carbon footprint by being an enabler to the automotive industry. Our goal is to provide access to affordable electrical mobility across all countries and markets. We supply lithium-ion battery technology and battery system solutions to automotive clients with significant impact on electrical vehicle driving distance, vehicle safety and system lifetime that goes beyond conventional combustion propulsion. We have successfully cultivated a start-up DNA while growing our global business beyond 200GWh of battery production capacity. In Europe SVOLT will install a Gigafactory and a Module and Battery Pack plant in Saarland, Germany with 30 GWh capacity

ABOUT THE POSITION:

The current role is based out from SVOLT, Europe and successful candidate will join the BMS Development Team of European R&D Center. This position is mainly responsible for the design & development of BMS application software. BMS software design includes software requirement analysis, developing software functional strategies, software architecture design and Software testing and verification. This position also require coordination of functional safety tasks related to application software.

RESPONSIBILITIES

- Responsible for development of BMS application software using Model based approach
- Develop software requirements according to system requirements, functional safety requirements, diagnostics list, CAN catalogue and other system technical documents.
- Develop software architecture design according to the system architecture and define software interfaces with Basic software and external ECUs
- Develop application software according to software requirements and software architecture. Simulate the function behavior and optimize software function strategy.
- Design software unit test cases according to software requirements and module functions. Analyze test methods applicable to unit test and coverage improvement and control and check the quality of unit test cases.
- Periodically monitor the work progress according to the project development plan and ensure the technical deliverables for application software. Coordinate with various functions of BMS team and conduct technical reviews.
- Responsible for software integration debugging, HIL testing and vehicle testing problem solution.
- Develop Model optimization tools and guide to improve efficiency of software development.
- Use Polyspace for software static code test and optimizing the generated code
- Use Vector Davinci Developer and Configurator for software integration.
- Develop BMS state estimation and advance algorithms for ageing, pre-warning and thermal runaway detection.

QUALIFICATIONS & REQUIREMENTS

- Bachelor or Master's degree in Electrical, Electronics or Computer Science Engineering;
- Minimum 6 years of total working experience and minimum 3 years of BMS application software development experience.
- Proficient in Simulink/Stateflow, CANape/CANOE testing calibration analysis tools, EA and other architecture design software. Use Vector Davinci Developer and Configurator for software integration and Polyspace for software static code test.
- Experience in software development under AUTOSAR architecture.
- Familiar with the battery systems. BMS development experience is preferred.

SVOLT Energy Technology (Europe) GmbH - De-Saint-Exupéry-Straße 10- 60549 Frankfurt am Main

- Familiar with MCU development with Freescale or Infineon.
- Familiar with software development according to ISO 26262 standard.
- Language Proficiency - English as Business Language. German and/or Chinese are considered as an additional advantage

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