Embedded Software Architect

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Company: LHH Knightsbridge

Location: Greater Toronto Area

Category: other-general

POSITION PROFILE Client Organization: Litens Automotive PartnershipPosition Title: Embedded Software ArchitectLocation: Toronto, ON

***Who is Litens?Litens has been a leader in delivering efficient, high performance and reliable vehicles for decades. Today our focus is on moving the Electric Vehicle (EV) revolution forward. We are a high performance, fast paced and innovative team. We are focused on a sustainable future and developing technologies that get us there sooner. We have a nimble organization structure and a lot of room for talented people to experience all aspects of what it means to bring ideas to life. We offer a flexible hybrid work environment that is focused on maximizing the productivity and work life balance of our employees. The RoleThe role embedded software plays in EV's cannot be overstated. We are growing our embedded software team rapidly. We need an innovative architect who is driven and who wants to build not only products but processes that can deliver on big goals and in record time. We have the world's fastest charging and most recyclable battery pack concept patented and in prototyping and we need your help to deliver the embedded software to get to market with great speed and greater quality. We're going to change the EV landscape and help the environment while doing so, if this sounds like a movement you want to help lead, this is the role for you. We are seeking an experienced Embedded Software Architect to join our team. Your primary responsibility will be to deliver product architectures and development processes that enable rapid delivery or reliable and module embedded software designs. What will you do?Lead the work on selecting the technologies and patterns needed for supporting Litens future product needsBe the

technical authority shaping the software platform to support the functionality of new productsCreate overall software architecture, define interfaces, select appropriate technologies, and ensure that software meets performance, reliability, and resource constraintsAdvise engineering leadership and senior management at Litens on strategic paths involving technology choices and how to balance the combination of business and technologyBe a software architect mentor to the rest of the engineering teamWork in cross-functional agile teams to produce and release new applications, features, and enhancements to improve the user experience, applying the full understanding of software engineering discipline and industry best practicesDesign and rapidly prototype proposed solutions in correct tech stack for that applicationWork closely with the development team members in major architecture projects, design and implementation, review of functional and technical requirementsUtilize proven architecture development methods/tools to layout software functions and performanceSupporting systems and requirements engineering activities to enable functional safety within vehicle systemsAdvise on the development of Functional Safety compliant software at various levels.Take a lead role in ensuring compliance with ASPICE software engineering process requirements across software development projects. Provide guidance, support, and hands-on involvement to ensure adherence to the defined processesWhat will you bring?Degree in Electrical/Software Engineering with 5 years of professional software development or system engineering experience.Extensive experience (5 years) in software architecture development with a focus on SPICE/ASPICE compliance within the automotive industry or other regulated industry (iSAQB – CPSA-F a plus).Familiarity with automotive development standards and processes is a plus.7+ years' experience in developing and debugging embedded software, written in C/C++Deep understanding of embedded systems and microprocessors and software architecturesDemonstrated experience with SysML/UML or similar tool for use in defining software architectureStrong skills in efficiently documenting software design (requirements etc)Experience in ARM-Based MCUs (Infineon AURIX Family - TC3xx is a plus)Experience with Real time operating systems (FreeRTOS, SAFERTOS)Experience with communication protocols (UART / I2C / SPI / USB / Ethernet / CAN)Experience with Python is beneficialPerformed key product development deliverables such as: DFMEA, design validation plans and reports (DVP&R), and problem-solving techniques (ex. 8D)Experience and knowledge in environmental, reliability, and safety requirements for Automotive, Industrial & Residential applications for battery systems is a bonus (ASIL, ASPICE, ISO26262, etc)

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