

Embedded Software Engineer

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Company: Intangles North America

Location: Canada

Category: other-general

Embedded Software Engineer Intangles is a rapidly growing technology-driven company that has established a strong global presence and is expanding to North America. We specialize in artificial intelligence and machine learning. We are focused on transforming the automotive industry by simulating the real-world environment into a virtual world using a Digital Twin concept. Our solutions analyze data using physics-based analytics and improve the prediction using Deep Learning. The team at Intangles are experienced professionals with a passion for innovation and excellence. We provide our clients with cutting-edge solutions that transform how companies do business. We are seeking a dynamic individual to join our team as an Embedded Software Engineer. This is a remote, work from home position that will require travel within USA and Canada. Ability to travel up to 50% of the time is required. As an Embedded Software Engineer, you will be responsible for delivering high-quality firmware for next-generation embedded products in Internal Combustion Engine (ICE)/Electrical Vehicle (EV) domain. You will work on crucial firmware engineering problems, including real-time application development and profiling, serial driver development for a variety of specialized ICs, and the development of key abstractions allowing for deeper integration with cloud platform. Join a team of knowledgeable and passionate engineers striving to build robust embedded systems to solve the most relevant problems in mobility. Being on the Intangles' Embedded team means building the future of innovation and growth through cutting edge AI infused hardware platform. Minimum requirements: B.E/B.Tech or M.Tech in Electrical Engineering, Electronics or Computer Science Engineering or equivalent degree. A minimum of 2-5 years' experience in developing firmware with a focus on Linux-

based systems. Proficient in C/C++ programming languages and scripting languages like Python. Strong understanding of Linux kernel, device drivers, and real-time operating systems, including schedulers, concurrency, and memory management. Familiarity with communication protocols such as CAN, LIN, SPI, I2C, UART, TCP/IP, Modbus, Ethernet. Familiarity with common electronic components and comfort reading circuit design schematics and contributing to hardware design discussions. Expertise with bench electrical engineering tools such as oscilloscopes, logic analysers, and debuggers. Experience with Yocto Project or other build systems for embedded Linux. Knowledge of security principles in embedded systems. Ability to work in a collaborative, cross-functional team environment. Excellent problem-solving and debugging skills. Preferred Requirements: Experience with automotive safety standards (ISO 26262). Knowledge of RTOS is a plus. Familiarity with version control systems (e.g., Git) and issue tracking tools. Understanding of software development lifecycle and agile methodologies. Strong communication skills and the ability to document technical designs and solutions. A system approach to design and development with the desire and curiosity to strive for exceptional delivery execution and continuous improvement. Deliver high-quality embedded C code in a real-time safety-rated environment. Design, develop, and maintain embedded Linux software solutions for automotive applications. Collaborate with cross-functional teams to define software requirements and specifications. Implement and optimise device drivers, kernel modules, and middleware components for embedded systems. Ensure compliance with coding standards and automotive industry regulations. Debug and bring up hardware prototypes using debuggers, logic analysers, and custom tooling. Troubleshoot software issues, providing timely resolutions. Work closely with hardware engineers to integrate software with automotive electronic control units (ECUs) and other embedded systems. Collaborate on system architecture and contribute to the overall software design process. Stay updated on industry trends and advancements in embedded Linux technologies.

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