

ATI Job Profile

Embedded Software Engineer

Location: Cambridgeshire, UK

ATI UK is seeking a motivated individual with a passion for all things automotive to fill an Embedded Software Engineer position within its team based near Cambridge. This is a salaried position with competitive pay and benefits including flexitime and hybrid office/home working, plus private health and dental care, 8% employer pension contribution and a generous incrementing annual leave entitlement.

As a member of the ATI UK team you will be part of a larger global dynamic group, working directly with the Instrumentation Team in our US based Global HQ tasked with providing embedded software support for our worldwide projects. The UK business is currently expanding, providing great prospects for career progression and the opportunity to develop innovative products aimed to support our exciting customer base of major automotive OEMs and Tier 1's.

Responsibilities

- Both new product development and maintenance/enhancement to existing embedded software
- Detailed technical design of system architecture and software components based on requirements
- Development and execution of unit test procedures
- Development and execution of system test procedures
- Development and updating of documentation on work performed

Qualifications

The ideal candidate will have the following qualifications and skills:

Essential Skills/Experience

- Experience with using C++, C and Assembly in the development of embedded software
- Experience with using Object Oriented programming techniques in the development of embedded software
- Experience with RTOS and multi-tasking interrupt based embedded software development

- Experience using ICE and debuggers in the development of embedded software
- Able to understand and intelligently debug existing software
- Solid understanding of general programming software technology
- Understanding and appreciation of software development life-cycles
- Knowledge of and understanding of software design patterns

Bonus Skills/Experience

- Ability to read schematics and component datasheets for bare metal programming
- Experience using logic analyzers and oscilloscopes
- Familiarity with C# and C++ for Windows applications
- Familiarity with system interfaces such as CAN, JTAG, I2C, OCDS, AUD, RTD, DAP, Aurora and Ethernet
- Understanding of communication protocols such as CCP, XCP, J1939, TCP/IP ISO14229 and ISO15765
- Experience with PLD/FPGAs and ABEL/VHDL
- Experience with communication transport layers such as CAN, RS232, USB, Ethernet and Flexray
- Experience with SAE, ISO and ASAM standards
- Knowledge of data acquisition concepts and systems
- Knowledge of automobile and engine controls systems
- Knowledge of wireless communication systems

Essential Non-Technical Skills

- Positive proactive attitude and solid work ethic
- Strong communication skills
- Strong organizational skills
- Experience with Microsoft Office applications
- Detail-oriented and methodical coding mentality
- Willingness to follow processes and procedures
- Ability to work independently

Candidates who meet the preceding qualifications should email their CV to hr_uk@accuratetechnologies.com.