ATI Job Profile

Software Engineer – Rapid Prototyping

Location: Novi, MI USA

ATI is seeking self-motivated individuals to fill positions in our software development group in Novi, Michigan. This is a salary position with competitive salary and benefits.

Responsibilities

As a member of the software development group you will be part of a dynamic development team performing analysis, design and development of our next generation rapid prototyping software using the latest C, C++, C#, .NET and modeling technologies. Responsibilities will include:

- Both new development and maintenance/enhancement to existing software
- Detailed technical design of 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 the following programming languages: C, C++, C#.
- Experience with The MathWorks® tool suite (MATLAB® and Simulink®).
- Experience in designing and developing Windows user interfaces.
- Solid understanding of Object Oriented methodologies and concepts in general.
- Able to understand and intelligently debug existing Windows GUI and lower-level software.
- Solid understanding of general programming software technology.
- Understanding and appreciation of software development lifecycles.
- Knowledge of and understanding of software design patterns.

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Desired Skills/Experience

- A bachelor's degree and a minimum of 5 years of experience in the field or in a related area.
- Development experience with The MathWorks® Simulink Coder™ (formally Real Time Workshop®).
- Understanding the nuts and bolts of the RTW build process.
- Understanding of low-level RTW components such as TLC files, tlc programming, tmf, c-mex, m-scripts etc.
- Development experience with creating and using GNU Compilers.
- Experience with SAE, ISO and ASAM standards.
- Understanding of communication protocols such as CCP, XCP, J1939, ISO14229 and ISO15765.
- Understanding of parser theories and techniques such as lexical/syntactical analysis.

Bonus Skills/Experience

- Development experience with The MathWorks® Embedded Coder®, xPC Target™, and/or Real-Time Windows Target™.
- Experience with communication transport layers such as CAN, RS232, USB , Ethernet and Flexray.
- Familiarity with Assembly language programming.
- Ability to understand machine instructions.
- Knowledge of data acquisition concepts and systems helpful.
- Knowledge of automobile and engine controls systems helpful.
- Familiarity with RISC processor architecture (PPC, SH2, Tricore, ST10, M32R).

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 resume to hr_us@accuratetechnologies.com .

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