JOB TITLE

Embedded Software Developer

REPORTS TO

Technology Manager

DIRECT REPORTS

None

JOB PURPOSE

Software engineer to develop PC-based support utilities and test software for embedded systems.

Ability to work well with internal teams, including developers, technical analysts, engineers, architects, quality assurance and operations. Ensure requirements are fully understood and that implementation plans match expectations and that support the ITSO vision: "Making mobility seamless".

You will champion the use of ITSO to best deliver future mobility innovation opportunities which look to the future, while supporting existing implementations.

RESPONSIBILITIES

- Implement and automate tests for ITSO's embedded software products.
- Development of user-friendly widows support utilities to configure and test the behaviour of smart cards and similar embedded devices.
- Documentation, generation and review.

SKILLS, KNOWLEDGE AND EXPERIENCE – ESSENTIAL

- C, C# .NET, Java windows development and associated IDEs.
- Experience integrating connected devices into windows applications.
- Experience in automated testing of embedded devices.
- Comprehension of technical specifications and the ability to identify relevant test scenarios.
- Documentation and test campaign planning.
- Excellent communication skills, verbal and written
- Excellent team working, organisational skills and attention to detail
- Able to prioritise workload and act on own initiative
- An ability to work to tight deadlines
- Able to work as part of a team
- Flexible and proactive approach
- Ability to retain a positive and professional attitude under pressure

SKILLS, KNOWLEDGE AND EXPERIENCE – DESIRABLE

- Java Android development.
- Familiarity with Smart-cards and smart card communication protocols. ISO 7816 & ISO 14443.
- Writing simulator and test harnesses.

- Version control.
- Experience with static analysis tools and code coverage tools.
- Embedded development. Debugging and optimising.
- Familiarity with cryptography and cryptographic attacks.
- Experience of the ITSO Specification.

LIAISON/CONTACTS

ITSO membership; 3rd party suppliers; suppliers to the industry