

JOB DESCRIPTION



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| Title | Embedded Applications Engineer |
| Reporting To | Technical Liaison |
| Location | Swindon |
| Overall Description | <ul style="list-style-type: none"> • An experienced embedded applications engineer to work in an embedded team in an Agile environment, producing leading ticketing solutions for customer interaction terminal applications |
| Main Duties | <ul style="list-style-type: none"> • Work closely with other team members and project managers to ensure alignment and coordinated development, also providing delivery estimates for planning. • Analysis, design, development, debugging and unit-testing of leading-edge ticketing applications, following Agile based software lifecycles to ensure successful introduction into production and end customers. • Architect and design new features, and create detailed technical specifications. • Provide third level support to business users and analyse and resolve any technical and application problems • Comply with company's quality procedures to meet expectations of product quality and reliability. • Where necessary, to provide reasonable support to other departments within the company. |
| Person Spec | <ul style="list-style-type: none"> • Has 5 years commercial experience within software development, covering the full development life cycle and developing embedded software applications. • Ability and willingness to adapt and learn new technologies and development techniques and to share relevant experience and skills with the team. • A friendly approachable attitude and team spirit is vital along with the ability to work well under pressure. • Excellent organisational skills and a demonstrated ability to multitask and manage time efficiently. • Strong communication skills with the ability to engage and interact with people at all levels. • Attention to detail, focused and driven by the desire to deliver well architected, efficient and highly reliable systems. |
| Essential Skills Technical Skills | <ul style="list-style-type: none"> • Practical design and development experience in an embedded C/C++ RTOS environment, including MQX • Strong command of the C language and considerations specific to embedded systems. • Experience of embedded microcontroller development and ARM based processors. • Good understanding and experience of device driver development. • Experience with communications interfaces; SPI, I2C, UART, Ethernet. • Knowledge of electromechanical devices and how to control them using software. • Experience of working on platforms with limited resources and requiring low power consumption. • Development of application and user interface features, providing varied functionality required of the end product (e.g. driving user journeys through the user interface and high level payment systems) • Good knowledge of configuration management and control practices. • Application development in desktop environment using MS Windows. • Disciplined in Software Version Control. |

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| Title | Embedded Applications Engineer |
| Desirable Skills Technical Skills | <ul style="list-style-type: none"> • Strong knowledge of serial communications protocols (I2C, SPI, RS232) and on the wire analysis skills of these communications. • Experience in network programming: TCP/IP, HTTP, SSL. • Understanding of API implementation with optimisation and lossless transaction models. • Board bring up experience and validation of low level systems. • Familiar with Agile software development techniques (ideally SCRUM) • Understanding of cryptography systems (AES, 3DES, SHA-1, etc.) • Payment card schemes (credit/Chip & PIN, ISO7816, contactless card schemes, etc.) and Payment Card industry (PCI) standards. • Knowledge of JTAG interface for In System programming (ISP) • Knowledge of embedded Linux (Yocto) and QT application development. |
| Health & Safety Statement | <ul style="list-style-type: none"> • Under the health & Safety at work Act, each individual has a legal responsibility for their own welfare and for the health and safety of others. Any queries you may have relating to health & safety matters should be raised in the first instance with your supervisor, your manager or a member of Human Resources Department. |
| Equal Opportunities Statement | <ul style="list-style-type: none"> • Metric is an Equal Opportunities Employer and will promote regardless of sex, sexual orientation, marital status, disability, religion, beliefs, colour, race, nationality, gender reassignment, ethnic or national origin. • Our aim is to ensure that no job application or employee received less favourable treatment or is disadvantaged by employment conditions or requirements which cannot be shown to be justifiable. |

Employees Signature

Date