

Job Description

Embedded Software Engineer

This is a permanent, full-time post operating from at tvONE's R&D facility in central Maidenhead, Berkshire, UK. In the current COVID pandemic, tvONE R&D personnel are all working remotely. Looking forward, tvONE welcomes applicants who are looking for flexible working position where there is some time working from the office and some time working remotely.

tvONE – The Company

tvONE is a world class developer and manufacturer of video conversion and AV signal distribution technology. With offices in the US, and R&D and Manufacturing facilities in the UK, tvONE provides a complete line-up of products and services for the professional AV, broadcast video and digital signage markets. Following the global merger of tvONE and Magenta Research in July 2013, the company, tvONE now encompasses these two superior brands under one umbrella.

The tvONE brand specialises in video, audio and multimedia processing equipment, based on its proprietary CORIO® video conversion technology. We have recently launched our new flagship CORIOmaster2 product range on the market. The successful applicant will be developing this technology, and others, as we continue to develop the CORIOmaster2 product line.

Magenta Research is the industry-recognised brand for the transmission, switching and flexible distribution of multi-format video, audio and auxiliary signals over fibre and Cat-X cabling. Products include AV extenders, distribution amplifiers and matrix switchers for DVI, HDMI, VGA, and component, composite, s-video, audio, USB and RS-232 signals.

Main Purpose and Scope of the Role

This role will suit a candidate with experience in software design within embedded applications with a desire to create innovative products for professional and broadcast A/V applications.

Working as part of a dynamic, multi-disciplined design team you will be focused on delivering leading edge video display and processing systems based around tvONE's proprietary CORIO® technology. This role will suit someone with a hunger to innovate, who enjoys working in a creative, collaborative environment.

The primary responsibility of this role is to design and deliver embedded & application software used to control tvONE's video products, ensuring that project targets are met, providing an exceptional customer experience.

Essential and Desirable Skills

Essential Skills:

Proven experience of Embedded Linux and/or Android development and open-source software.

Proven experience of design using C.

Full knowledge and implementation experience of multi-threading and multi-tasking applications.

Previous experience of software/firmware implementation and debugging.

Excellent oral and written communication skills.

Familiarity with Source Code Control systems (eg SVN) and using them to facilitate stable releases and point fixes.

Desirable Skills:

Experience of working in an Agile scrum development environment.

Experience of GNU toolchain.

Knowledge and experience of ARM SOCs.

Experience of human interface device design.

Experience of Board Support Packages (BSP) and any configuration tools (Yocto, Buildroot, etc).

Experience of networking socket API and IPv4, IPv6, REST protocols (TCP, UDP).

Experience of coding in an RTOS environment.

Any experience of Digital Video Standards (HDMI, HDCP, SDI, codecs, audio) and their implementation.

Candidate Profile – Education and Experience

The successful candidate will possess a numerate degree, or equivalent, and have a minimum of two years' hands-on experience of working in an embedded development environment.

In addition, the right candidate will have proven practical experience of the complete design cycle from an understanding of customer requirements to qualification and production release, including test and product delivery. They will be able to work alone as well as collaboratively in teams, able to listen and discuss solutions that contribute to the delivery of great customer experiences. The candidate should be able to provide demonstrable evidence that they have a proactive attitude in recognising problems and proposing potential solutions.

tvONE is located across three sites, two in the UK and one in Ohio, USA. Candidates will be expected to be proactive in establishing excellent professional relationships with colleagues based in separate locations in order to facilitate delivery of agreed goals.