



Kinesys Job Description

Lead/Principal Embedded Software Developer

The Company

We are an exciting and dynamic company that works at the cutting edge of automation technology. Focussed on the fast moving entertainment industry, we design and sell premium products that allow designers and artists to express their creativity and push boundaries through the use of eye-catching scenic motion.

As specialists in the live entertainment arena Kinesys products can be found in use in venues and on pop concerts, TV shows, films and corporate events across six continents.

Kinesys has a simple goal: to provide exceptional automation equipment that allows venues to be outstanding and audiences to be amazed.

Job Role Background and Summary

This exciting and influential role represents a fantastic opportunity for the right individual. It is a chance to join a dynamic company with technology at its heart. All Kinesys products have embedded firmware at their core and capabilities of this software play a key role in the appeal and usefulness of our products to customers.

Kinesys' requirement is for a Lead/Principal Embedded Software Engineer to create firmware that works seamlessly with our in-house designed hardware to produce reliable and extremely capable products that have the great responsibility of moving scenery and people around in front of thousands of fans at concerts and often millions on the television.

You will also be responsible for updating and enhancing existing products to cater for component changes and to incorporate feature requests from our customers.

The role requires the ability to create solid software designs and architectures that have room to expand in the future. You must be able to collaborate with and oversee other software engineers to develop prototypes in short timescales. You will be able to reliably and accurately agree and then meet targets and milestones for your development projects.

Job Role Responsibilities

- Ownership of the 'ground up' design and architecture of embedded software for real time applications
- Decomposition of designs in to structured modules/functions ready for implementation by yourself and the team.
- Hands on development in C of new ARM based embedded software for a range of products currently under development



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- Ensure quality of software using appropriate methods (Code Review, Static Analysis, Unit Test etc.) and application of suitable Coding Standards
- Maintain, update and enhance existing embedded software written in C
- Documentation of software products, development and execution of test plans
- Work closely with other members of the engineering team to assist with the correct choice of processors and supporting hardware

Key Job Requirements

Essential

- Experience with ANSI C in an embedded environment
- Direct experience of cooperative Operating Systems e.g. uTasker and/or other relevant OS experience (e.g. FreeRTOS, VxWorks, Green Hills, QNX)
- Hands on 'real time' experience with embedded microcontrollers (e.g. ARM)
- Demonstrable experience in a lead position and proven capability in the technical management of at least one other engineer
- Ability to work independently on assigned tasks and with others to ensure the rapid and co-ordinated development of new products
- Flexibility, willingness to learn, and to work with other software tools when required

Desirable, the following are an advantage:

- Experience in Safety Critical applications – medical/rail/automotive/aviation
- Familiarity with toolchains such as Rowley CrossWorks, Keil uVision etc.
- Hardware knowledge, familiarity with processor selection, serial data comms (RS232, RS485), IP networking
- Comfortable with hands on testing of embedded hardware, use of JTAG debuggers, oscilloscopes, serial data analysers etc.
- Exposure to Siemens Step 7 and CODESYS or other PLC/drive languages
- Working knowledge of C++
- Degree in Computer Science, Software Engineering, Electronics Engineering or an equivalent qualification¹.

Job Reports To

Engineering Manager

Job Involves Technical / Task Management of

Embedded Software Developer

Working Hours/Days

8 hours per day plus lunch break, Monday to Friday

¹ This is not an essential requirement in the case of an otherwise exceptional candidate with directly relevant industry experience.



Location

Kinesys Office, Hampton, Middlesex

Remuneration Package

- Competitive salary based on experience
- Annual bonus based on company profit share scheme
- Company pension scheme with employer contribution