

Graduate Software Engineer - Platforms

Overview of group

The Platforms group develop evaluation/prototyping boards to aid the internal development and customer prototyping/evaluation of the next generation of ARM IP (processors, graphics engines and system level IP such as memory controllers).

These boards run a boot monitor which allows bespoke applications to be downloaded and run operating systems such as Linux, Symbian and Windows Mobile.

Purpose

This is a chance to work with a variety of key ARM technologies in real hardware to solve customer prototyping requirements and explore the full capabilities of the products.

You will be involved in all parts of the design flow from specification to delivery of the final system.

You will be working alongside other software and hardware engineers to port Linux, develop device drivers and applications for the latest processors, demonstrating their full capability in a real environment. It will also involve the creation of new applications to test and demonstrate the boards.

Key Accountabilities

Porting of Linux kernel to the latest ARM processors and the development of device drivers for new peripherals.

Specification of new applications in collaboration with senior engineers.

Development of these applications using the ARM Realview Tools.

Debugging and verification of designs in simulation and on boards using the latest ARM RealView debug and trace tools.

Creation of applications notes and working with Technical Publications to create User Guides.

Personal Specification

A graduate with an understanding of computer hardware, and an interest in programming and Linux.

Education

Qualified candidate will have a university degree in Software Engineering or other relevant technical discipline.

Experience

C/C++.

Development of open source Linux projects.

Assembly level programming

Ability to debug software and hardware.

General Attributes

Co-operate & communicate well with the team and the other members of the department.

Be motivated to continuously develop skills and accept a variety of responsibilities as part of contributing to the groups success.