



## Android Porting Training

### Overview :

This 5 days training is intended for developers who want to port Android to new hardware, to change default boot-up animations, logo's and background, and to know how to efficiently work with the Android source code for customization and branding.

The participants get a direct hands-on experience with their own demo board and VM interface, they learn how to avoid pitfalls and to be up and running quickly. The training covers the Android Architecture, specifics of the Android Linux kernel and Intellectual Property issues.

During the training, all attendees get direct feed-back in an interactive manner, and at the end of the training they are ready to port Android to new hardware and integrate it into embedded applications.

For this course, all participants will receive an Android based device so they can continue their projects after the course.

### Knowledge prerequisites :

Fluent on the Linux command line.

User-level experience with Android devices.

Linux kernel knowledge is interesting but not strictly required.

### Method :

Course/Workshop, classical educations with practical exercises.

## Course Flow :

### Day 1:

- Introduction to Android and architecture overview
- Licensing and Intellectual Property issues
- Building Android from source

### Day 2:

- Write an application with the Android SDK
- Android Internals
- Linux kernel compilation

### Day 3:

- Startup procedure of Android
- Android Kernel patches
- Android Tools such as adb, emulator, iocctl

### Day 4:

- Porting Android to a new device and customising it
- Add a native application to the build

### Day 5:

- Develop a JNI library
- Testing and build automation
- Extend the Android SDK

## Courseware :

Course materials provided, complemented with a development board with touchscreen. Currently all students receive a [BeagleBone Black](#) with a [Touchscreen and Expansion I/O Board](#), but this might change in the future to a similar board.

## Course Dates & Location:

Please contact us for available dates and locations.

## Price :

2.950,- € + VAT per attendee (incl. development board, courseware and lunches during the 5 days).