Training Introduction Yocto

Caveats: This is not an introduction in the development process of Linux for embedded devices. It definitely presumes basic knowledge of Linux and C.

Day 1:

- What is YOCTO / and what it is not (short overview)
- Short introduction to "git"
- YOCTO and git
- Yocto layers, shown on the example of Poky and Hardware Manufacturer BSP Layers
- Generate an Uboot image for booting the device
- Generate a SDcard image boot Linux
- Generate a cross-toolchain for a specific ARM platform

Day 2:

- Integrate your own applications (makefile, autotools, QT, cmake) in YOCTO (define your own layer)
- Build your own kernel and integrate him in Yocto
- Device tree and YOCTO

Requirement:
Nothing on Hardware; Programming knowledge with Linux and C

Software:
Linutronix provides an USB HDD with an x86 64-bit based Debian system for the host system, a Debian toolchain and for the target system an ARM Linux, running on a running on an embedded device. The HDD is a gift for the participant and can be taken home for further studies.

Number of participants:
Due to our experience we know that a single instructor could coach a maximum of 6 persons. Our courses are therefore limited to this number of individuals.

The „Embedded Device "is an ARM virtual machine and is provided for this course by Linutronix GmbH.