LINUTRONIX

Realtime Programming

Training Realtime (Preempt-RT) Programming

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

- **Realtime – how is it defined? Do I need realtime?**
- **Overview Linux and realtime: different approaches, applications, results**
- **Introduction to the Linux realtime patch (Preempt-RT)**
- **Configuration of Linux with realtime: Interrupt priorities …**
- **Realtime Linux system – evaluation (load scenarios, test tools…)**
- **How to develop a real-time application with Preempt-RT**

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

Hands-On:

Latency measurement with cyclictest and analysis of results; definition and generation of work-load with tools like „hackbench"

Number of participants:
Due to our experience we know that a single instructor could coach a maximum of 8 persons. Our courses are therefore limited to this number of individuals.