rt:labs

EtherCAT for embedded systems

This two-day workshop is designed to give developers a thorough understanding of EtherCAT development in embedded systems. By combining important theory with plenty of hands-on exercises, it ensures that attendees leave the course fully ready to develop EtherCAT Masters/Slaves. It is, quite simply, the most cost-effective first step for any professional development team about to start using EtherCAT in embedded systems.

Topics covered

This is a brief summary of the topics covered:

- **Introduction to EtherCAT.** Get to know the bascis of EtherCAT.
- **Developing EtherCAT Masters.** Learn how to develop EtherCAT Masters using SOEM (Simple Open EtherCAT Master) stack
- **Developing EtherCAT Slaves.** Learn how to develop EtherCAT Slaves using SOES (Simple Open EtherCAT Slave) stack
- **Application Layer**
- **DataLink Layer**

Tools and hardware

The workshop is hands-on and uses the following tools and hardware:

- rt-collab Workbench
- rt-labs EtherCAT SDK
- Freescale K60 Tower System
- IXXAT EtherCAT Board

Attendees get to keep one complete development kit to kick start the development once back in the office.

There are a number of important elements that need to come together to make a robust and stable embedded system using EtherCAT Technology. Developers of such systems face many challenges. They need to ensure that their applications are efficient, but also that they are easy to maintain. This workshop teaches developers how to handle these and many other challenges. Our instructors are all experienced developers who have used EtherCAT technology extensively, and are also extremely familiar with the internal workings of the software components.

Who should attend

The workshop is primarily designed for embedded engineers. Participants are not required to know anything about EtherCAT but should be well proficient in C programming.

EtherCAT®

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Availability and registration

The "EtherCAT for embedded systems" workshop is held a few times a year at rt-labs' office in Gothenburg, Sweden. Please refer to our website for forthcoming dates. This workshop can also be taught on your own premises, offering the additional benefit of being able to customise the course contents to fit the needs of your development team.

For further information please send an e-mail to:

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or call: +46 31 240 250

About rt-labs

rt-labs is a software company specialized in embedded real-time systems using EtherCAT technology. We provide products and solutions that enables our customers to reach the market quicker and decrease the maintenance cost over time. We help our clients develop EtherCAT Masters and EtherCAT Slaves using our rt-labs EtherCAT SDK.