

Continuous Integration for Embedded Systems



Training Description

The participants learn about the methods of Continuous Integration (CI) and will be able to apply these in their own embedded software projects after the seminar.

This seminar provides an introduction to the basic principles, concepts and strategies of Continuous Integration. It also covers the special requirements of embedded systems.

Using practical examples and exercises on a Jenkins server (open source), participants will expand their knowledge and learn how to successfully implement Continuous Integration.

Target Group

Software architects, software developers and testers, software project managers, and integrators

Prerequisites

Knowledge of embedded software development and experience with version control systems and the C programming language are required.

Experience with unit tests would be an advantage.

Training Content

Basic Principles of Continuous Integration with Jenkins/Hudson (1th day)

- The objectives and basic principles of Continuous Integration
- Installation and administration of a Jenkins server
- Setup of jobs and pipelines
- Build and test automation for C/C ++
- Test automation methods

Advanced Principles of Continuous Integration (2th day)

- Jenkins/Hudson Administration

- Important plugins
 - Test Reporting and Code Coverage
 - Version Management
 - Static code analysis
 - Notification
- Parameterized Jobs
- Continuous Delivery

Method and Training Material

Presentation and hands-on exercises.

The training material will be provided to each participant.

Duration

2 days

Training Fee

1.190 Euro plus VAT tax per person

The fee includes the training certificate, the training material, snacks, beverages and lunch in a nearby restaurant.

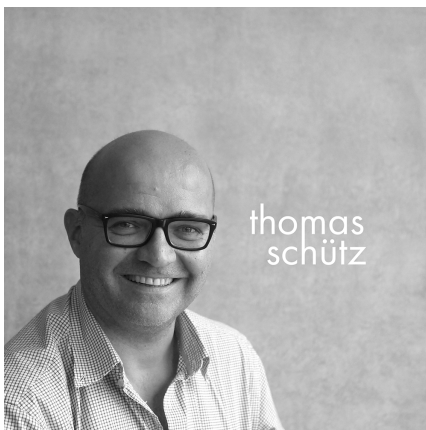
Number of Participants

6 to 12 participants

Location

Technologiezentrum TechBase, Franz-Mayer-Straße 1, 93053 Regensburg

Trainer



Thomas Schütz

holds a degree in aerospace engineering of the University of Munich and is CEO and consultant of Protos Software, which he founded in 1997. He served as project lead or architect in many projects with the focus on model-based development for Embedded Systems. He also is project lead of the Eclipse Project eTrice.

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