

Verifysoft TECHNOLOGY

Seminar 2011

Testing Embedded Systems

Two-day Seminar with Prof. Dr. Fischer

13 - 14 February 2012 Rotterdam

Inhouse Seminars Available.





Avoid Risks and Costs:

Learn How to Test Embedded Software!

This seminar provides the essential skills to test efficiently and effectively high-quality-value and reliable Embedded Software. In addition to test management, this workshop provides technical and procedural practices. Through concrete exercises and examples participants will be able to enhance their own projects.

Audience

- Developers
- Test engineers and test managers
- Managers

Services

- Two-day seminar with Professor Dr. D. Fischer
- Beverages and snacks within seminar breaks
- Two lunches
- Complete set of slides
- Certificate of attendance
- Book:



Testing Embedded Software

Broeckman, Bart

Notenboom, Edwin

ISBN: 0321159861

(€46.95)



Lecturer

Professor Dr. Daniel Fischer studied communication engineering at the University of Applied Sciences Offenburg (Germany) and electrical engineering at the University of Hagen (Germany). He did his PhD at KIT "Karlsruhe Institute of Technology" (former Research Center Karlsruhe) in the fields of 3D-image processing and artificial intelligence. He worked as a software engineer, as a software quality engineer and as a software project manager for Hewlett Packard and Heidelberger Druckmaschinen AG. Since 2001 he is professor for information and computer technologies at the University of Applied Sciences Offenburg. His main research fields are Software Testing, Embedded Systems and Software Development Processes. Daniel Fischer is also lecturer for software testing at Ecole Nationale Supérieure d'Informatique in Strasbourg (France) and works as a consultant for software quality.

Agenda

1. Part: Overview

- Testing of software
- Particularities of testing of Embedded Systems
- Exercises

2. Part: Development Process and Organisation

- Requirements Engineering meets Testing
- Agile versus traditional development processes
- Test team skills
- Exercises

3. Part: Test Techniques

- Basic Test Techniques (Equivalence classes, Boundary analyses, Testing of special values, Stress testing, Regression testing, Random testing, CRUD, etc.)
- Important test techniques for Embedded Systems (State oriented testing, Control flow oriented testing, Classification-Tree-Method (CTM), Evolutionary testing, Rare event testing, Pairwise testing, Fault seeding, etc.)
- Control flow oriented testing (C0, C1, C2, MC/DC, MCC)
- Data flow oriented testing
- Checklists
- MISRA rules
- Exercises

4. Part: Test Environments and Software Tools

- Testable software architectures and software metrics
- Usage of test environments (MiL, SiL, PiL, HiL)
- Testframeworks and test automation (White-Box and Black-Box)
- Test implementation (F.I.R.S.T. principle)
- Design for test: mocks, stubs & Co.
- Static code analysis
- Exercises

5. Part: Important Trends

- Model based testing
- Application Lifecycle Management
- Software maps

Seminar Hotel



Bilderberg Hotel Rotterdam (Netherlands)

13 - 14 February 2012 (Monday to Tuesday)

Seminar in English

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We're pleased to offer this seminar also as inhouse seminar.
Feel free to contact us: (+49) 781 63 92 027

Registration

Fax: (+49) 781 6392 029
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77656 Offenburg (Germany)
Contact: Klaus Lambertz

or by letter to Verifysoft

Hereby I'm subscribing to the seminar „Testing Embedded Systems“:

(1)

Last name, First name, Position / Department, Email, Phone

(2)

Last name, First name, Position / Department, Email, Phone

Seminar Dates

13. + 14.02.2012 Rotterdam (NL) Early bookers' discount until 31.10.2011 (seminar in English)

Seminar Times

Monday: 10:00h to 18:00h, Tuesday: 9:00h to approx. 17:00h

Prices (incl. one night stay in seminar hotel)

_____ first participant 1380 Euros + _____ further participants 1080 Euros each.

_____ hotel accommodation for sunday to monday + 80 Euros _____ no hotel accommodation - 80 Euros.

Prices for early bookers until 31 October 2011 (incl. one night stay in seminar hotel)

_____ first participant 1180 Euros + _____ further participants 880 Euros each.

_____ hotel accommodation for sunday to monday + 80 Euros _____ no hotel accommodation - 80 Euros.

Overall price _____ Euros + 19% value added tax = _____ Euros

Prices above include a stay over night in the hotel booked for the seminar (from monday to tuesday) and a rich breakfast buffet already. For participants who do not stay over night in this hotel the price is 80 Euros off (netto). An additional stay from sunday to monday can be requested explicitly via Verifysoft Technology GmbH and costs 80 Euros plus 19% value added tax.

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