Training Catalog

Telecom
- Introductory Seminars
- Datacom Networks
- IP Networking
- Transmission and Optical Technologies
- Telephony Networks & Advanced Telephony (Voice over IP – VoIP)
- Cellular and other Wireless Technologies
- Mobile Operating Systems & Application Development
- Internet (See Computer Technologies Skills)
- Security
- Video Technologies
- OSS/BSS

Hardware Design
- FPGA Tools
- Advanced FPGA
- Embedded Design
- DSP Design
- HDL
- PCB World
- Hardware Enrichment
- MATLAB Courses
- Long Term Training (LTT)

Computer Technologies Skills
- Software Engineering
- Technology Management & Administration (Project, Product etc)
- Linux/Unix
- DotNet Environment
- C and C++
- Java
- Real Time
- Internet
- Open Source
- Smartphones
- Security
- Quality Assurance and Software Testing
- Database

“Our vision is to empower people all over the world, enabling them to achieve their professional aspirations”.

Logtel is proud to be providing knowledge to its customers for over 30 years, such as:
## Transmission & Optical Technologies
- Intro to Optical Communication
- Intro to OTN (Optical Transport Networks)
- Optical Networking
- Passive Optical Networks (PON) & GPON

## SDH:
- Intro to SDH
- Next Generation SDH

## IP Networking
- TCP/IP Illustrated
- Dockers
- Introduction to SDN, Openflow & NFV
- Diameter
- IP Networking
- IP Routing & Switching Technologies
- IP Multicasting
- Asterisk
- IP Multimedia Subsystem (IMS)
- IP Traffic Engineering
- IP TV
- IPv6
- Mobile IP
- Multicore / Manycore & NOC Architectures
- New Technologies in IP Networking
- Programming Networking Applications
- Quality of Service (QoS) in IP Networks
- SS7/IP - Sigtran
- Wireshark (Ethereal) - How to use it effectively

## Video Technologies
- Video Compression and MPEG-2
- Advanced Compression
- Techniques -MPEG4 / H.264 & Video Application
- Audio and Video Codecs
- Future Video codecs (HEVC/H.265 & VP9)
- Speech Technology and Voice Recognition
- Video Coding Technologies for Next Generation Networks (NGN)
- Digital and Analog Video
- Google Video Technologies
- Intro to Open CL
- Triple play - a fantasy that becomes a reality

## TV:
- TV Fundamentals
- OVER-THE-TOP TV – The Future of Television
- Advanced TV
- IP TV in Depth
- Mobile TV
- TV Standards and High Definition HDTV
- Understanding Multimedia
- Video and Android
- Video Everywhere
- Video Implementation in Software
- Video Integration
- Video on 3G & 4G

## Mobile Operating Systems & Application Development
- Android Extended
- Android Fundamentals
- Android Security
- Android Software Architecture
- Android Workshop for Developers
- iOS Development
- iPhone & iPad Developers Course - Intro
- iPhone & iPad Developers Course - Advanced
- Mobile Hybrid Applications
- Mobile OS Trends
- Mobile Payment and Mobile Marketing
- Native, Web, Platform Based & Hybrid Applications
- Android Internals
- Mobile Devices Security
- Smartphone Software Platforms
- SWIFT iOS
- Vehicle Connectivity

## OSS/BSS
- Introduction to NGOSS
- BSS/OSS architecture in the new world of telecommunication – using NGOSS

## Horizon 2020
- Step by step Workshop for the submission of the European HORIZON 2020 program

## Internet
- See Computer Technologies Skills

## Introductory Seminars
- IOT review
- Mastering Telecom
- M2M open system & solutions
- Smart City

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# FPGA Tools
- Debugging Techniques using the ChipScope Pro Tools
- Designing with the PlanAhead Tool
- Essentials of FPGA Design
- FPGA Architecture & ISE Features
- FPGA for Board Designers
- Vivado Design tool flow
- Vivado Design Suite for ISE Software Project Navigator Users

# Embedded Design
- Advanced Features & Techniques of Embedded Systems Design
- Advanced Features & Techniques of Embedded Systems Software Design
- C Language Programming with SDK
- Embedded Linux on the MicroBlaze Processor
- Embedded Design with PetaLinux SDK
- Embedded Open-source Linux Development
- Embedded Systems Design
- Embedded Systems Software Design
- Essentials of Microprocessors
- How to Design Xilinx Embedded Systems Workshop
- MPSoC
- SDSoc
- Zinc All Programmable SoC System Architecture
- Zynq Smarter Solutions – Decision Maker 1/2 Day & 1 Day Courses
- Zynq Smarter Solutions – Hardware Workshop
- Zynq Smarter Solutions – Software Workshop

# ARM
- ARM - AMBA3/4 AND NIC301
- ARM - AXI3 / AXI4 INTERCONNECT
- ARM - CYCLONE-V CORTEX-A9 HARD PROCESSOR SYSTEM
- ARM - CORTEX-A8 SYSTEM DESIGN
- ARM - CORTEX-A15 / CORTEX-A7 BIG/Little Implementation
- ARM - P2040 QorIQ implementation
- Cortex M3
- Cortex M4
- Cortex R4
- Cortex A5MP
- Cortex-A9MP software implementation
- Cortex R5
- Cortex A15
- ARM CORTEX-A9MP SYSTEM DESIGN
- Neon Programming

## Advanced FPGA
- Advanced FPG Implementation
- Advanced Tools & Techniques of Vivado Design Suite
- Designing for Performance
- Debugging Techniques Using the Vivado Logic Analyzer
- Designing with Multi-Gigabit Serial I/O
- Designing with Spartan-6 & Virtex-6
- Designing with the Xilinx 7 Series
- Designing with the Xilinx Analog Mixed Signal Solution
- Designing with the UltraScale Architecture
- FPGA Design Methodology
- FPGA Power Optimization
- Industrial Motor Control Using FPGAs and SoCs
- Migrating to Xilinx for experienced FPGAs
- UltraFast Design Methodology
- UltraScale Architecture Workshop
- Tips & Tricks for FPGA Designers
- Partial Xilinx Partial Reconfiguration Tools & Techniques
- Vivado Design Suite Hands-on Introductory Workshop
- Vivado Design Suite Advanced XDC and Timing Analysis for ISE Users
- Vivado Design Suite Static Timing Analysis and Xilinx Design Constraints

## VHDL
- Advanced Design with Verilog
- Advanced VHDL
- Expert VHDL for Design & Verification
- Designing with System Verilog
- Essential Tcl Scripting for the Vivado Design Suite
- Fast-track Verilog for VHDL Users
- SystemVerilog for Design & Verification
- Design with Verilog
- Verification with System Verilog
- Design with VHDL

## Doulos
- Advanced Design with VHDL
- Comprehensive SystemVerilog
- Expert VHDL Advanced Verilog
- OVM Adapter Class
- UVM Adapter
- VHDL for Designers
- VMM Adapter Class
## Hardware Design Training

### Hardware Enrichment
- Advanced Digital Design
- ASIC Prototyping with FPGA
- From Network Concept to Working Silicon
- PCI Express Bus Gen 1-3
- Practical Aspects of Electronic Module Development & Production workshop
- Principles of Digital Image Processing
- RTOS & VxWorks
- The Secrets of Electronics in 2 days
- USB 3.0

### PCB World
- Designing with Ethernet Mac controllers
- Designing with UltraScale FPGA Transceivers
- EMI, EMC & ESD
- High-Speed Implementation & Simulation of DDR3 Interfaces
- How to Design a High-Speed Memory Interface
- How to Design a Xilinx Connectivity system in 1 Day
- PCB Layout Design
- Power and Signal Integrity for Board Design
- Printed circuit Board Design for Professionals
- Signal Integrity and Board Design using HyperLynx
- Signal Integrity for High-Speed Memory & Processor I/O
- Tips & Tricks for Board Designers
- Zynq Board Design & High-Speed Interfacing

### DSP Design
- C-based Design: High-Level Synthesis with Vivado HLS
- C-based HLS Coding for Hardware Designers
- C-based HLS Coding for Software Designers
- DSP Implementation Techniques for Xilinx FPGAs
- DSP Design using the System Generator
- How to Design a Xilinx Digital Signal Processing System in 1 Day
- Signal Processing Applications & Algorithms
- VLSI-DSP for the ASIC and FPGA Engineer

### Long Term Training (LTT)
- Board Design Expert (120 hours training)
- FPGAXpert (120 hours training)
- LinuXpert

### MATLAB Courses
- MATLAB Fundamentals
- Advanced MATLAB
- MATLAB for Signal Processing
- MATLAB for Image Processing
- Simulink for Communication Systems
- Simulink for System & Algorithm Modeling

### Horizon 2020
- Step by step Workshop for the submission of the European HORIZON 2020 program
## Computer Technologies Skills

### Software Engineering

**Agile, Extreme and Scrum:**
- Agile Software Development
- Developing in Scrum
- Extreme Programming
- Test Driven Development
- A.I. (Artificial Intelligence)
- Good Coding Practices
- GUI (HCI) Design
- Introducing XML
- Performance profiling
- Introducing Operating Systems

**Object Oriented and UML:**
- Appreciating UML
- Detailed UML
- Move 2 Object Oriented UML
- Object Oriented Analysis & Design
- Object Oriented Programming
- SysML
- PC Architecture
- Service Oriented Architecture (SOA)
- SOA, Web Services and XML Security
- Software Architecture & Design Methods
- Software Engineering Essentials
- Software Engineering Literacy
- Understand Software Engineering

### Continued: Software Engineering

- USB 3.0 System Architecture
- Windows Internals
- Writing Software Technical Documentation

**Windows 8:**
- Introduction to Window 8
- Hands on Windows 8
- Building Windows 8 Applications

### Security

- Application Penetration Testing
- Applied Cryptography
- Don’t Let the Hackers in
- Ethical Hacking
- SSL in Depth
- Information Security
- Applied Cryptography MACSec & IPSec
- Malware
- Browser based attacks and mitigation

### Internet:

- Cloud Computing Security
- SOA, web services and XML security
- Secured Technical Design
- Web Application Penetration Testing
- Open Source Security Tools

### Continued- Security

**Security Programming:**
- Building Secure Applications
- Secure C++
- Secure DotNet
- Secure Java

**Smartphones:**
- Android Security
- iPhone Security
- Smartphone Security
- Windows phone Security

### Linux/Unix

- Get to Know Linux
- Linux for the System Programmer
- Linux Fundamentals
- Linux Kernel & Device Drivers
- Linux Kernel Internals
- Linux LTT (Long Term Training)
- Linux Multithreaded Programming
- Linux Networking
- Linux Overview
- Linux Security
- Linux Shell Scripting
- Linux System Administration
- Linux User-space Programming
- GDB
- Linux System Management
- Perl
- Real Time & Embedded Linux Development

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DotNet Environment

- ADO.NET
- Advanced DotNet
- ASP.NET
- C#
- C# Design Patterns
- DotNet Applications
- DotNet Debugging
- DotNet Performance
- Introduction to DotNet
- LINQ
- Team Foundation System
- Visual Basic
- Visual Studio
- WCF
- WF
- WPF
## Open Source
- ACE Framework
- Apache Derby
- Apache Tomcat
- Developing with Eclipse
- MongoDB
- Embedded Open Source Linux Development
- MySQL
  - Administrating MySQL
- PostgreSQL
- SQL & MySQL
- Open Source Tools
- Open Source Security Tools
- Python Platform
- Advanced Python
- Python
- Python Design Patterns
- Ruby on Rails Framework
- Scala
- TCL (Tickle / Tool Command language)
- Using SystemC

## Technology Management and Administration (Project, Product...)
- Computer Room Relocation
- Defining Requirements
- Defining Requirements Workshop
- Design Reviews
- Designing & maintaining Microsoft server
- Designing, Implementing & Testing Financial Systems
- Estimating Software Projects
- Estimating Software Projects Workshop
- From Requirements to Design
- Guide to Market Analysis
- Managing & Maintaining Microsoft Server
- Network Administration
- Principles of Risk Analysis & Management

### Project Management:
- Project Management for Implementers
- Project Management for the Software Developer
- Successful Project Management
- Product Management:
  - Basic Product Management
  - Strategic Product Management
- Product Requirements
- Using the RFP

## Database
- Data Cleaning, Conversion & Migration
- Database Technology
- Getting to know Apache Derby
- MSSQL Server
- MySQL
  - Administrating MySQL
- SQL and MySQL
- Principles of Database Design
- Principles of Database Design Workshop

### SQL:
- Advanced SQL
- PostgreSQL
- Basic Standard SQL
- Introduction to SQL
- MongoDB
- Big Data
- Big Data Ecosystem, Hadoop & MapReduce for Software
- Engineer & Admin
- Tuning and Optimizing Queries

## Horizon 2020
- Step by step Workshop for the submission of the European HORIZON 2020 program
### Real Time and Embedded
- Advanced C Programming for Real Time
- ARM Software Development
- Design Patterns for Real Time
- Effective Real Time Embedded C and C++
- Embedded C++ for Real Time Systems
- Embedded Open-source Linux Development
- Linux Multithreaded Programming
- Real Time Architecture
- Real Time and Embedded Linux Development
- Real Time Embedded Programming
- Real Time Operating Systems
- Real Time System Testing
- Real Time System Testing & Debugging

### QA and Software Testing
- Automatic testing
- Configuration Management
- Introduction to Software testing
- QA Lifecycle
- Real Time System Testing
- Real Time System Testing & Debugging
- Software Testing Engineering
- Test Driven Development
- Testing Mobile Applications & Games
- Testing Web Applications
- UML & the STD
- Understand Software Testing
- Unit Testing for Programmers
- Writing Test Documents (STP, STD, STR)

### Smartphones

#### Android:
- Android Extended
- Android Fundamentals
- Android Internals
- Android Security
- Android Software Architecture

#### iPhone and iPad:
- Developers – Advanced
- Developers – Introduction
- iOS Development Course - 5 days
- iOS Development Course - 9 days
- iPhone Security
- Mobile Applications Development
- Mobile Payments & Mobile Marketing
- Smartphone Security
- Smartphone Software Platforms
- Windows Phone Fundamentals