FPGA

Programming and using programmable logic components

Embedded systems increasingly combines programmable electronics and software. These two components of the system contribute critically to the proper functioning of the system and must be designed and controlled not only separately but also in their interactions. **Ac6-training** offers practical training courses to enable you to master the implementation of programmable logic components and their interactions with the software components of your systems. ALT1 CYCLONE-V CORTEX A9 HARD PROCESSOR SYSTEMS 3 days H1 Lattice MicroZ FPGA embedded processor 3 days H2 Lattice Diamond 2 days HX2 AMD (Xilinx) MicroBlaze implementation 2 days HX5 AMD Zynq All Programmable Hardware and Software Design 2 days MSP Microchip SmartFusion2 Programming 3 days RV1 RISC-V Architecture This course provides a comprehensive overview of the RISC-V architecture and instruction set for attendees. They will learn the basics of RISC-V, including RISC-V Assembler and Simulator, writing and running assembly code, and RISC-V C Programming. The course covers topics such as interrupt and exception handling, memory management, multiprocessing and concurrency, performance optimization, hardware and system design and future developments. Hands-on experience will be provided through lab sessions. 3 days V0 Programmable components fundamentals VHDL training is intended for professionals who want to use or maintain programmable components 2 days V1 VHDL Language Basics 4 days V2 Advanced VHDL for FPGAs 3 days V3 Design with SystemC 4 days