

Methods

Modeling, analysis and development methodologies

The complexity of computer systems led more and more to the use of standard tools to support their specification, design and development. These tools are based, where possible, on standard methods and languages .

Ac6-training offers training on the most common modeling language UML (*Unified Modeling Language*); these courses are tailored to the industrial and embedded systems environment and the specific needs of real-time applications.

We also offer training on management tools for the software development process, as *Eclipse CDT UML Real-Time*. This training introduces the main concepts and standards for embedded systems and introduces the safety requirements that are directly designed using existing schemes. One new topic is the creation of a complete software plan for the development of a software architecture. It is a new and local approach to the process that can be implemented in an enterprise environment and embedded code, especially targeting real-time processors, cannot be effectively tested. It must be validated before the code is run, especially for real-time processors. Understanding how to effectively solve problems using the primitives provided by the underlying operating system, RTOS, designed to efficiently manage tasks in embedded applications. The real-time programming essential topics, such as task scheduling, real-time organization, real-time management, and code development, are essential for understanding real-time systems and program concepts. real-time systems foundation in real-time OS development, enabling participants to design, implement, and debug robust embedded applications.