



Industrial Services



Software Engineering

planning · projecting · engineering · documenting



Secure software is critical to a broad array of applications ranging from traffic control to medical systems engineering.

In addition to basic skills in software development, prerequisites for meeting the quality and security requirements of software development include intelligent design of the human machine interface and the consideration of ergonomic factors.

We provide the services you need, meeting the quality, schedule, and location requirements you specify.



The development, updating and maintenance of software require knowledge regarding the use of relevant tools, as well as the ability to effectively integrate technology, methodologies, and industrial experience.

Our staff are thoroughly familiar with methods and technologies for the development of software systems with high demands on security and dependability.

We safeguard your software investments on your behalf through reengineering, refactoring or porting to a modern operating system.

Software Engineering

CMM key process areas of five development stages



Applications for microcontrollers and digital signal processors. Software for control of x-ray devices, navigation systems, and fail-safe automation components.

PC and client/server applications. Software for x-ray tube testing, automatic generation of interface codes, and creation of test specifications.

Database applications. Application-specific database interfaces for process recording in the automobile industry as well as for production planning and control.

Development

- Specification of requirements
- Architecture concept and design
- Model-based development
- Implementation and module testing
- Integration and system testing

We take into account technology- and industry-specific standards. For example, in medical engineering we comply with FDA 21CFR820, IEC 601-1-4, and IEC 601508.

Project and quality management

- Project administration
- Design and development
- Analysis

Testing

- Static test methods:
Definition of programming guidelines and implementation of code reviews to test compliance with internal and external standards such as IEEE, McCabe metrics for complexity, life cycle of variables and pointers, and verification of design and interface specifications as compared with code.
- Dynamic test methods:
Creation of test strategies, concepts, and specifications, implementation and management of tests in accordance with specifications, evaluation of test results, error management, and build-up and development of individual test environments, particularly for test automation.

We meet technology- and industry-specific standards, such as IEEE 1012 for software verification and validation, and IEEE 829 for test documentation.

Updating and maintenance

- Reengineering
- Refactoring
- Porting to modern operating systems

We apply standards, such as IEEE 1219, for software maintenance.

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Technology Sectors:

- Automation
- Building Technology
- Communication Technology
- Electrical Engineering
- Intelligent Transportation Systems
- Installation
- Knowledge Management
- Mechanical Engineering
- Personnel Service
- Product Development
- Project Management
- Software Engineering
- Software Solutions
- Turnkey Projects