

Ground Segment Software

Design, development & testing

EMTECH provides high-quality software engineering resources for participation in projects and consortiums regarding Ground Segment Software. Technical skills and know-how of EMTECH's engineering team include a large set of design tools, programming languages, and development environments, always following the appropriate software engineering standards to provide excellent documentation and code deliverables.



Operations & Services

EMTECH SPACE.PC. has been selected by ESA as a Qualified Partner (QPA) for the following domains:

- Ground Segment Data Infrastructure Systems
- Object Oriented Analysis
- Design Methodologies and Technologies
- Programming
- Artificial Intelligence
- Web-Based Applications
- Man-Machine Interface
- Data Management
- Business Information Framework

DELIVERING HIGH QUALITY PRODUCTS

& SERVICES FOR GROUND SEGMENT

APPLICATIONS, SINCE 2009

EMTECH commercializes space-certified technologies to power reliable, robust and scalable solutions for other sectors such as energy smart-grids and decision support systems (DSS).



Specifications*

Ground Segment Data Infrastructure Systems

- Object Oriented Analysis
- Model Driven Architecture (MDA)
- Artificial Intelligence
- Project Management

Software design & development services

- Multithreaded and multi-process design and development (Windows & Linux)
- Real Time Operating System Programming
- Extensive usage of open-source technologies
- Microsoft Office & Open Office APIs expertise
- Eclipse Integrated Environment (Plug-in applications, User interfaces)

- Networking protocols and hardware devices interfacing

Database Systems

- Design (Oracle, MySQL, specification, documentation)
- Development (ANSI SQL, Oracle SQL, PL/SQL, Java)
- Administration

Web Software Design & Development capabilities

- JSP, ASP.NET, PHP, JAVA
- SEO Services
- Google APIs

Development Languages & Environments

- Microsoft Visual Studio Development Environment
- Eclipse platform (C++, Java)

- Make, AutoMake, CMake systems
- JavaScript, Python for scripts
- Scientific computer applications in MATLAB/Simulink
- UML (MagicDraw) for software architectural design
- Continuous integration with Jenkins CI
- Git for version control
- Sonar-Qube for code analysis

Simulators Infrastructure Engineering:

- SMP2 Adaptation (services, interfaces, extensions etc.)
- SIMSAT Simulation Engine (Parallel Discrete Event Scheduler, Dataflow Scheduler)
- Co-simulation environments and synchronization methodologies
- Interfacing of Visualization technologies

*Contents are subject to change without prior notice



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