



GREECE



GERMANY

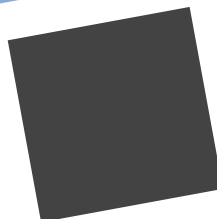


YOUR SUCCESS IS OUR BUSINESS

SOFTWARE PRODUCTS, SOLUTIONS, SERVICES



www.softcom-int.com



SMART-SHORING

PRODUCTS OVERVIEW

Automotive

Telecommunications

Knowledge Management

Digitalization

Space

Professional Printing

IT & Systems

Avionics

Additional Services

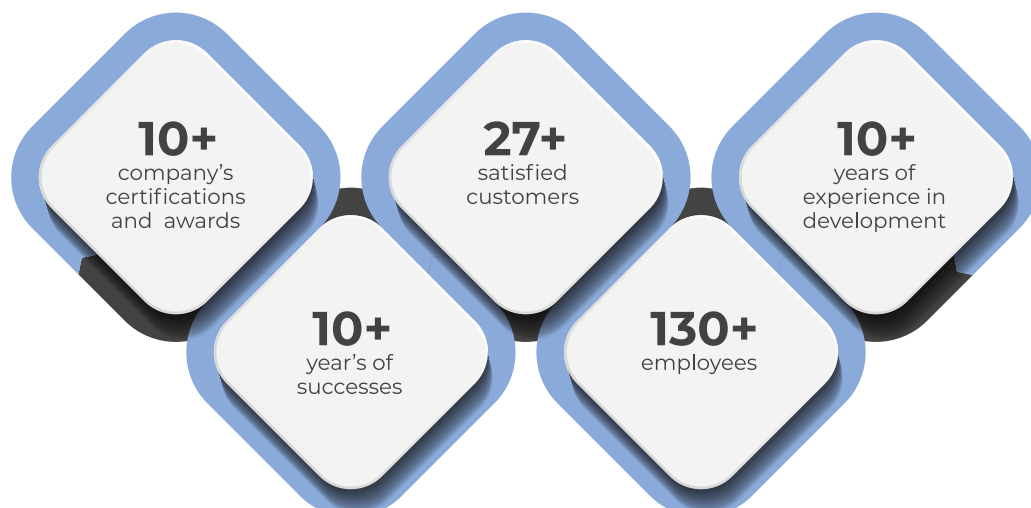
TECHNOLOGY PORTFOLIO

SOFTCOM INTERNATIONAL GmbH

BENEFITS OF WORKING WITH US

MANAGEMENT

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MEET SOFTCOM INTERNATIONAL



Software Competitiveness International S.A.

(SOFTCOM INTERNATIONAL) specializes in demanding Software and customized ICT-Services. Founded in 2010, it is a rapidly growing Software House, providing our clients with reliable cooperation based on technical excellence, world standards of processes, customer orientation and valuable services. We combine the maturity, professional diligence, experience and skills of a large Multinational Company with the flexibility and personal commitment of a startup. Our team consists of highly educated, experienced, motivated, and talented Software Engineers.

Our broad software technology portfolio includes:

- cutting edge SW development technologies,
- methods and tools, real-time systems,
- distributed and horizontally scaling applications,
- client - server applications, web applications,
- mobile applications,
- embedded systems and others.

Recognizing the needs of the ever-growing technological world, our company mainly focuses on providing:

software R&D services and innovative customized software products and solutions for specializing in safety-sensitive and quality-demanding markets, ICT solutions and services in addition to consulting and professional training.

Our products are tailor-made to our customers' needs, the majority of whom belong to the Central European market such as Germany, Switzerland and France.

Our activities encompass the entire software development lifecycle, from concept definition and software architecture to software release and maintenance.

SMART-SHORING¹



Smart-shoring is a special form of offshoring, i.e. the displacement (outsourcing) of activities in nearby countries, benefiting from both the cost-effectiveness of outsourcing and the mentality, and proximity effectiveness of on-site staff. It leads to enriched strategic partnerships for specialized / skill intensive services, with enhanced efficiency due to resource expertise and high quality based on creativity and processes expertise.

Do you need to expand your team capacities with committed, highly qualified and already experienced Software engineers, and in parallel optimize your costs and save time? We are the trusted partner for you! We create highly effective and motivated teams of experienced Software engineers in Greece, dedicated to our cooperation with you, for a long-term, transparent and cost-effective cooperation, based on commitment and trust. This is the proven smart-shore solution, on a sustainable basis.

Your Team



Your Premises

Smart-shoring Our Customer's Dedicated Teams



Our Premises

Remote Collaboration



**Successful
Integration
With Your Team**

We offer:

- Recruitment process on our costs
- Hiring only well experienced Software engineers and “best talents”, from a large pool of Software engineers, currently provided by our local labor market
- Hiring decision in close cooperation with you
- Committed team of these highly qualified Software engineers, as an integral part of your company (“dedicated” team)
- Your own, permanently employed team, located at our premises in Greece, and remotely connected with you, via a separate, secure and fast IT network
- Mature processes and strong processes mentality, to ensure the high performance of the team
- Seamless integration of the team with your existing team
- No administration efforts for you
- No HR count for you

We are process- oriented, we believe that our employees are our biggest asset and therefore we train them accordingly to:

- appropriately handle sensitive information,
- successfully complete challenging projects with cutting edge technologies
- efficiently manage and produce all the work products needed for standardization.

PRODUCTS OVERVIEW

We offer a wide range of services that focus on Software Research and Development for a variety of process and quality-intensive markets such as:

- **Automotive**
- **Telecommunications**
- **Digitalization**
- **Space**
- **Knowledge Management**
- **Professional Printing**
- **IT & Systems**
- **Avionics**

AUTOMOTIVE

Since 2011 we have taken part in diverse projects related to the implementation, testing, maintenance and Technical Project Management (TPM) of automotive software systems. The advancements in technology have provided us with the opportunity to create products for many parts of this industry, some of which are:



Navigation, including:

- **Guidance:** Implementing and testing automotive navigation software. Services as Guidance, Routing, Map Rendering provided to automobile devices via in-car communication methods.
- **Destination Input:** Services related to data (addresses, POIs etc)
- **Security:** Threat Analysis and Risk Assessment for possible vulnerabilities identification.
- **Route horizon planning:** Software engineering for an in-car embedded CPU system which provides data for hybrid vehicle engine and transmission usage planning.
- **Traffic data:** Development & bug fixing for automotive navigation application and specifically: traffic-related topics.
- **Navigation application architectural split:** Refactoring navigation software components to meet architectural requirements.
- **Map compilation services:** providing updated map data each year for the navigation systems. Production, testing and delivery of map updates. Software maintenance (bug fixing, adaptation and extension) of the production tools that transform the original vendor-provided map data, into the custom optimized format required by the embedded navigation systems.



Driving Assistance / Autonomous Driving:

Development and testing of the framework for driving assistance & automated driving functions based on Artificial Intelligence concepts. Development of a multi-sensor data fusion component suitable for autonomous driving, compatible with ISO 26262 standard.

Automated drive

Destination: 50° 46' 10.624" N - 6° 28' 51.978" E
Arrival: 09:21 pm - Distance: 887 miles

TCP/IP: 192.56.327.684.5

SYNC: enabled | Sensors: active | Cameras: active



Automotive EPS, Transmission Control, Heating Systems:

These projects fall within the areas of System Design - design of complex device drivers as well as redesign of non AUTOSAR SW components to AUTOSAR ones, Requirement Engineering, Functional Safety - Coexistence

of Elements Analysis and Dependent failures Analysis and Safety Analysis, SW Architecture-unit design, SW Specifications, SW Development, Unit Testing, Integration Testing, System Analysis and System Validation.



Connectivity (on board and off board):

The on board (car) analytics system is a telemetry processing system that collects and performs statistical analysis of various car signals. Manufacturers can then see and evaluate the performance of a car model in the real world.

This is combined with diagnostics where we implement various diagnostic services

(UDS - Unified Diagnostic Service, ISO 14229) for Classic and Adaptive ECUs - Electronic Control Units.

The off board (cloud) system entails working in the area of Connected Car, developing the backend system responsible for updating the ECUs, using over-the-air technology and collecting data from vehicles for Data Analytics.



Technologies used:

- C++ 11, C++ 14, Embedded C, C#, Java 8, TypeScript / Angular 7, Kotlin (Android)
- CppUnit, GoogleTest, GoogleMock, Robot
- Groovy / Python, Nodejs
- Spring Boot, Microservices, AWS, RabbitMQ, Apache Kafka, Docker, Helm, Kubernetes, Prometheus, Elastic Search, Grafana, SonarQube, QtCreator, CMake, GCC 6.x, Visual Studio, Jenkins, Klocwork
- IBM DOORS, PTC Integrity, Rhapsody, Polarion
- Spring Security, OWASP, Auth0, JWT
- Analytics, Spark, Apache Parquet, Amazon
- Athena
- Linux Development
- Agile Methodologies (Kanban, Scrum)

TELECOMMUNICATIONS

In 2010 we established our first Telecommunications team with wide ranging experience in cutting edge Software technologies. We have developed a Network Management System (NMS) application, responsible for managing Ethernet and optical network elements (devices). The NMS performs tasks like performance monitoring, event / alarming, provisioning on the devices, ethernet and optical services and many other customer-critical features.

The application is carefully designed, state of the art, to satisfy both functional and nonfunctional requirements such as scalability, high availability, critical performance, and more. System Integration testing is conducted on the NMS, to verify performance management, automation, reporting etc.



Technologies used:

- Horizontal Distributed applications, Cloud Technologies, Software Defined Networks
- Java 11, Web services, Play, JPA, JUNIT, Java Design Patterns, Scala, Akka, REST / JSON, JMS (ActiveMQ, RabbitMQ), Docker, Docker Swarm, Kafka, Jenkins, Spring-Boot, SoapUI
- MongoDB, PostgreSQL (timescale), OrientDB
- Robot Framework
- Telecom: optical networking, NMS, Multi-Technology Operations Systems Interface (MTOSI), SNMP, WDM, Presto, SDN, Ethernet
- Windows, Linux (CentOS - RedHat)
- Agile methodology

Built microwave router and microwave switch product series

SoftCom kicked off their collaboration with the Global Wireless Transport Service Provider back in 2021 delivering a diversity of services related to the firmware of purpose-built microwave router and microwave switch product series.

Our team is well structured, our tasks are predefined on a release-by-release basis, whereas dedicated internal collaboration

and training processes are adopted to:

- ensure knowledge transfer
- demonstrate enhanced performance -even while ramping up- and in this way
- deliver good quality work in time and in budget

Due to this work model, each and every one:

- can now be considered as self-managed
- can be dynamically and efficiently reallocated to tasks even after last minute changes, and
- are able to switch to client's procedures.

Softcom follows Agile and Waterfall approaches, whereas its activities span across the Software Development Lifecycle [SDLC]. More precisely, they encompass Systems Engineering, SW Development, Defects Fixings, System Integration and DevOps..

Technologies used:

- Gitlab, Docker, Grafana, Prometheus
- SQL, nodeJS, xml, JS
- C/C++, Scala, Python, Bash, Yocto, Confd-Yangs, Netconf, Linux
- Protocols [BGP, TACACS, OSPF, QinQ, L/LDP, IP/MPLS, L2VPN, L3VPN, IS-IS, LAG, IPv4, etc], PCAP
- Protocol Features & non- Protocol Features [VLAN, WebUI, Helpdesk, I/Fs, System, etc.]
- MS Tools, Jama, Jira, MIRO

KNOWLEDGE MANAGEMENT



Today knowledge is the most important asset acquired with the use of technology, helping any organization to grow and evolve. Because of this in 2011 we took over our first projects in Knowledge Management, developing a Learning Management System (LMS) - a software application used to administer, track, report and deliver training courses and programs for our customer.

We work in an unlimited framework agreement with 100% utilization.

Our tasks include implementation of new functionality for existing software products, refactoring, and new software product series.

The Software consists of web-based applications with Microsoft technologies. There are also mobile applications in Android, IOS and Windows phone, which are connected with the product and provide some of the functionalities of the product in mobile devices.

Technologies used:

- Asp.net, MVC, Javascript,
- Android (Kotlin, Java), IOS (Swift, objective C), Entity Framework, Sql server, Sketch for design
- Microsoft Windows
- Agile methodology

DIGITALIZATION

Digitalization has had a profound effect on today's society. We recognize the vast amount of opportunities that digitalization provides and our services represent this since 2015. Our team has designed and developed fully customized software solutions for international customers.

These include web-based portals as show-places, all-in-one platforms for project portfolio management, and work collaboration.

They are designed to speed up the way a business manages its projects and to enable the integration of work, content, and process.

We follow international standards for web-secured implementation and focus on IT security, health check, and performance monitoring applications.

Technologies used:

- Java 8, C# 7, C# 9, Asp.Net MVC 5, Angular 7, TypeScript/Javascript, HTML, CSS 3
- Spring framework, Liquibase, MapStruct, Elasticsearch, Entity Framework 6, Sass, ES6, Webpack, Yarn, Docker, Prometheus, Kubernetes, Specflow, Serilog, MassTransit
- RDBMS, MS-SQL, Postgresql
- RabbitMQ
- Microsoft Visual Studio
- Agile Methodologies (Kanban, Scrum)

SPACE

We have been active in the space industry in the overall theme of introducing AI to space applications since 2014. In the area of Space Operations, we have focused on Ground Segment system performance monitoring applications: We have created tools to aid developers diagnose resource usage inefficiencies in large enterprise applications using novel data mining and machine learning techniques. We have scaled them up to perform at big-data scale and have also executed Data Science and machine learning activities in collaboration with ESA missions for anomaly detection & prediction of faults.

To help space system operators better understand complex spacecraft and ground system failures, we have created a decision support system. This enables advanced management of alarms and notifications generated by subsystems, simultaneously processing multiple information sources, and automatically providing contextual information to users when anomalies occur. It includes a mobile app to be used outside the operations centre by remote (standby) operators.

In the area of software technology, we have created tools to improve the testing infrastructure for functional simulation by introducing AI, ML, data mining, and visual analytics to the process. We are also working on enabling model-based testing and automated test case generation for ground segment data systems by fusing Model-Based Software Engineering (MBSE) approaches with AI/NLP methods to create advanced recommender systems for test case generation.

We are experienced in working with ECSS and ESA-tailored standards, following our clients' quality, regulatory and bidding processes, and standards. Our focus areas are Ground Segment Software, Earth Observation and Flight Software.

Some of the services that we offer to our clients are:

- Research and detailed analysis
- Requirements engineering
- Software design, development, testing & optimization to ESA standards
- Engineering solutions to scale to big data requirements
- Performance monitoring & control systems
- Telemetry processing
- Verification and Validation
- Remote operations using smart mobile devices
- Developing Web, desktop GUI, and mobile applications
- Leveraging the agile development methodology and hybrid V/agile according to client needs

Technologies used:

- Java, Python, Scala, C/C++, Kotlin
- Eclipse RCP framework, Spring Framework
- JavaFX, Angular, Bootstrap, PrimeNg
- Jupyter notebooks, TensorFlow, Google BERT
- Keycloak, SonarQube, Gitlab CI/CD
- REST, GraphQL
- ESA & CNES Ground Systems
- Big Data Technologies (Apache Spark, Hadoop, Elasticsearch ELK)
- Data mining, classical AI and machine learning algorithms, recommender systems, Complex Event Processing
- Docker, Linux, and Cloud services

PROFESSIONAL PRINTING



Since 2017 we are also involved in professional printing software services.

We offer:

- software support and architecture solution development as part of the printing and enterprise printing systems
- replacing legacy systems with cloud and microservices as part of the solution
- analysis and reporting of the printer data and real time alarm support
- AR/VR introduction as part of the training and alarm management of the printing systems.

Technologies used:

- Java 8, Java 11
- microservices
- Spring Boot, Spring Cloud, Consul, Hibernate, Elasticsearch, ActiveMQ, Websockets, ELK Stack, Angular 2+, Prometheus
- PostgreSQL, MongoDB
- hybrid waterfall /agile according to client needs

IT

Our IT department is designed as an integral part of our software development services, supporting the development process. It is responsible for maintaining smooth operation of all systems, as well as improvements and upgrades to the infrastructure.

Our Software engineers rely on the IT department for:

- Installing and configuring computer hardware, software, secured systems and networks
- Monitoring and maintaining systems and networks
- Developing and implementing IT policy and best practice guides to protect the company's
- IT structure and data security
- Help desk for any issues that might arise
- Testing and evaluating new technologies



AVIONICS

Active in the field of avionics since 2017, our team of engineers has worked for Avionics Engine Control, using the V-Model software implementation methodology. We have successfully completed projects in the areas of System analysis, System Design, Requirement Engineering and System Validation.

The services we offer to our clients in this field are:

- Software specifications to find root cause of system errors, providing solution, following solution to implementation, testing.
- Design of complete system functions at application level.

Technologies/tools used:

- IBM DOORS, PTC Integrity, Rhapsody, Infineon and Renesas microcontrollers

ADDITIONAL SERVICES



Customized Software Solutions:

Requirement engineering, implementation, installation and maintenance of complex, fully customized systems. Some examples of solutions, implemented by us are: customized content management systems, specialized web applications with high demands on IT security, health check and performance monitoring applications for complex and distributed Software systems, telemetry solutions, digital marketing applications, mobile applications. Using an Agile methodology, we enable our clients to monitor project development at all times and we ensure the effectiveness of our solutions for our customers.

Development of mobile applications:

Our team of Mob Apps Software experts develops a range of native mobile applications for all platforms, mainly iOS and Android, for a variety of business applications.

Testing and system integration:

Our ISTQB-experienced testing team has a long international experience, following our internal mature procedures, based on ISO 9001:2015 and CMMI. In combination with our "active thinker's" mentality we contribute as an asset to our clients, generating process improvements and knowledge sharing for the benefit of our customers and their software.

Consulting and training:

Through our team of software and ICT experts we provide our customers with SW and ICT consulting, customer training and specialized training services.

Research activities:

In parallel with our successful projects, we also cooperate with local and international Universities and Research Institutes on research. Exploring new ways to benefit from the always evolving technologies, we transform innovative ideas to products of international importance and competitiveness. Examples include:

- Project Diamond: Development of a prototype web application for a fully automated, portable diagnostic system, for the rapid, efficient and low-cost diagnosis and monitoring of microbial diseases. Involves processing, storage, and smart representation (mapping and temporal evolution) of data originating from the diagnostic systems.
- Augmented Reality (AR) applications for Microsoft HoloLens: Development of AR applications for HoloLens as demos/proof of concepts.
- Project: Universal Windows Platform (UWP) - Design and development of UWP apps for mobile, tablet and desktop, as clients for a Learning Management System (LMS).
- Development of prototype applications in cooperation with our customers for the automotive sector.
- Technology evaluation, concept development and software prototyping study for novel intelligent user interfaces for the space industry.

TECHNOLOGY PORTFOLIO



MySQL Lite



git



SOFTCOM INTERNATIONAL GMBH



Software Competitiveness International GmbH is headquartered in Darmstadt, near Frankfurt, and serves as an innovation center of specialized and advanced software solutions and services. Our team of engineers consists of long-term personnel who are familiar with the company's philosophy and mindset.

Located near the premises of ESA and EUMETSAT, we offer on-site and off-site services and are involved in space projects in the field of emerging technologies, mainly Data mining, Artificial intelligence, Big Data, and Software engineering. We are experienced in working with ESA standards, following our clients' quality-, regulatory- and bidding-processes and standards.

We design and develop fully customized software solutions for international customers, in the business sectors of space, healthcare and digitalization:

- tools to diagnose resource usage inefficiencies in large enterprise applications, by using novel data mining and machine learning techniques.
- interactive visualisation interface to improve Human-Machine interfacing or to enable data analytics of real-time system performance, using AI decision making technologies.
- innovative, tailor-made applications for Digitalization purposes (e.g. Resource and Project Management), of high stability, maintainability, performance and user friendly UI, using microservices architectures and modern UI technologies.

Software Competitiveness International GmbH has executed :

ESA projects to create own product software using downstream space technologies:

DARTT is a demand-responsive transport solution to improve the viability of public transport in rural areas, focussing on a tourism target audience. It combines a new experience for discovering tourism destinations, with booking bus tickets in rural areas.

GRID is a web dashboard to help Geopark administrators identify and prepare for natural disasters in UNESCO Global Geoparks. It provides continuously updated satellite Earth Observation data for their area of responsibility in an easy-to-use format, specifically tailored for Geopark users.

For Healthcare we developed a user-friendly and intuitive application suitable for fast-paced Medical Diagnostics, requiring minimum technical training to operate. It was part of the DIGI-B-CUBE funded project Cardiognosis, which aims at the early prognosis of cardiovascular diseases.

BENEFITS OF WORKING WITH US

Efficiency:

- Long experience in Software R&D for the international market.
- Specialization of our highly skilled, creative and very experienced Software engineers.
- Rapid establishment of new teams: 1 – 3 months, dependent on the required skills and your schedule, with zero investment from our customers.
- Personal commitment for quality and time to market. No budget deviations.

Valuable software services, of premium quality, cost effective and time-schedule reliability.

Mindset:

- Dedicated team per customer, increasing productivity and effectiveness.

- Adaptability for a fast and successful integration to our customer's policies and standards.
- Creativity & flexibility for the benefit of our customers.
- Central-European working conditions and mentality, well experienced with the way of working and the cooperation needs of multinational companies.

Our team as an integral part of our customer's company.

Accountability:

- Software engineers with excellent written and spoken English.
- Cooperation built on trust, transparency and long-term perspective.

As promised and as expected!

Some of our company's Awards and Certificates include:

- ISO 9001:2015 & ISO 27001:2013 by TUEV AUSTRIA - HELLAS
- Automotive SPICE® V3.1 Level 3 Certification
- TISAX level 3 assessment, following the question catalogue of information security of the German Association of the Automotive Industry (VDA ISA). TISAX audit provider: KPMG AG - Germany
- Two "Hellenic Innovation Awards 2021": "HR & Employees Development" (gold), "Top HI Award for Innovative Company" (silver)
- "Greek Exports Awards 2019": Top Innovation in Exports -Silver Award
- Two "HR Awards 2019": "Best Team Building Program" (silver), "Best Employee Engagement Strategy" (silver).
- Three "HR COMMUNITY AWARDS 2015": "Creative Working Environment Award" (bronze), "Motivational & Benefit Policy Award" (bronze) and "Website and Other Interfaces Award" (bronze).
- Evaluated by the IEEE Benchmark "Project and Process Efficiency" (year: 2014) with the overall result 65.9% ("solid" company), with a "champion" performance in PRC (Planning, Risk and Claim Management), as a company belonging to the top scorers of this benchmark.
- "Business Award 2013" by the Chamber of Lassithi – Crete Greece, as "a growing Small Medium Enterprise"



MANAGEMENT



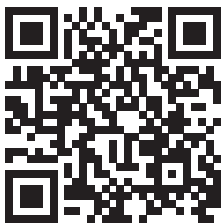
Dr. Zoi - Tzoanna Ekaterinidi is the **Founder** and the **Chief Executive Officer** of **Software Competitiveness International SA & Software Competitiveness International GmbH** and has over 25 years of experience in Software and the international ICT market.

Dr. Zoi Ekaterinidi, born in Athens, is a graduate of the German High School of Athens. She studied Electrical & Electronics Engineering at the Technical University of Munich - Germany (DAAD Scholarship) and Physics at the University of Athens. She completed her PhD in Natural Sciences and Computer Science at the University of Athens, in cooperation with Imperial College London - UK and has completed Advanced Management Studies from Duke University USA. She worked for 20 years at Siemens Greece, as Software Engineer and Project Manager.

Later on, as General Manager of the Software Center of the Company, she managed its expansion from 15 to 800 engineers within 9 years.

She established it as an international Software Center in the area of Telecommunications, and then became the General Manager of Siemens IT Solutions & Services in Greece. In 2010 she established Software Competitiveness International SA, and in 2019 Software Competitiveness International GmbH, currently managing both.

Dr. Ekaterinidi has received several awards: The **“Manager of the year 2003”** award from the ECO-Q Organization for business excellence in Greece, the **“Manager of the year 2004”** award from the Greek Information & Telecommunications Forum, the **“Top + award for Global Competitiveness for Software Offshoring”** by Siemens AG in 2004 (team award), the **“Business Award 2013”** by the Chamber of Lassithi - Crete Greece, and has been named by Siemens AG as **“a Siemens Innovator”** globally, in 2007.



CONTACT US

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