

Bringing innovation
in everyday business
processes

Corporate Brochure



2021

www.powersoft19.com

Powersoft19 delivers complex safety-critical embedded solutions to its clients around the world. We have been enabling industrial innovation in the Automotive, Energy, Rail, Gas Detection, Healthcare, and Communications sectors since more than 23 years. With the increasing digitization, we help companies achieve automation by our IoT services, and our tailored cyber security solutions ensure data protection and system security.



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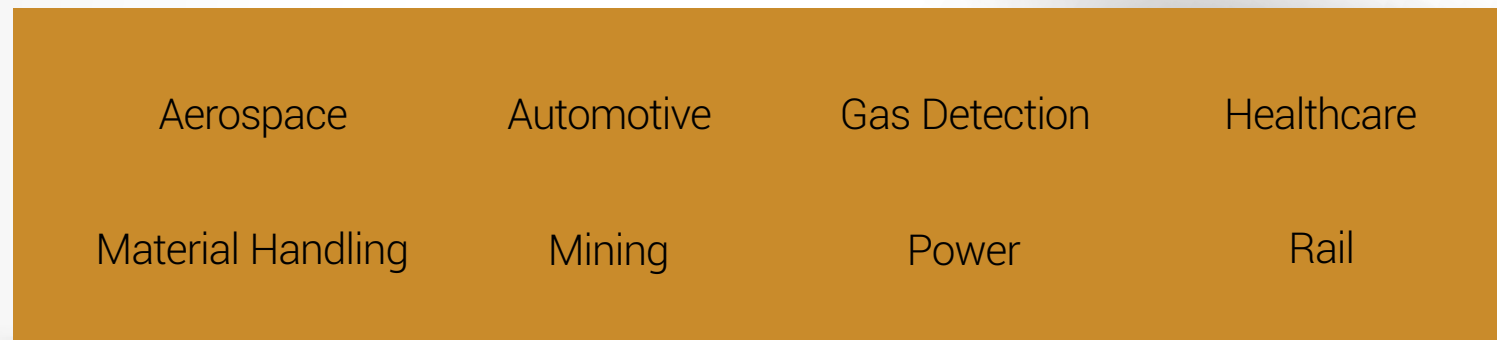
Snapshot

About Us

Powersoft19 is a global leader in innovation, high-tech engineering consulting, and outsourcing. We have been providing services for more than twenty three years to key players in the Automotive, Material Handling, Mining, Energy, Rail, Oil and Gas, Finance, Healthcare, and Telecom sectors.

Our services cover every stage of project development from strategic planning through product development and maintenance to obsolescence. We capitalize on our diverse team's knowledge-base in four key areas: Product Life Cycle Management, Engineering, Intelligent Systems, and Information Systems.

Industries



As an outsourcing partner, we provide consultancy for clients in more than twenty countries throughout Europe, Asia, and the Americas. As a strategic partner, we offer global project support to our clients while guaranteeing a consistent level of service.

Our Clients



Competitive Advantages

- More than 3,000 man-years of experience in diverse industries
- Access to a large talent pool through teaching affiliations with universities
- Zero marketing budget due to returning customers and client referrals
- Exceptional blend of experienced and young talent
- World-class PhD consultants on board
- The core team of 10 founding members remains the driving force behind *Powersoft19* since early 90's
- 95% of 400 engineers retained since more than 10 years

Services



Our Values

- People
- Diversity
- Client Satisfaction

Partners

- Microsoft
- Cisco
- Oracle

Standards Compliance

- ISO
- TÜV
- EBA
- DEKRA
- SIRI

Get Started

You may confidently rely on *Powersoft19* as an extension of your development department. We have the expertise, resources, and the latest technology to ensure that your business ideas and processes deliver success. Contact us to discuss your specific needs.

Tel: +1 (865) 686 8124
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What We Value Most

Lift
Your
Vision
Higher

After all, it is all about People



People

In this fast moving business world, every company has some driving force, a goal, and a notion of success. In *Powersoft19's* realm, it all revolves around people: one passionate team and many satisfied customers.

Diversity

The driving force behind our each project comes from a diverse team who is passionate to solve clients' toughest business challenges. Our team consists of members coming from over a dozen of cultures and a variety of educational backgrounds—all bound by a shared passion for solving problems and making a societal impact. In achieving this goal, each team member chips in with their own special talent, expertise, and creativity.

Client Satisfaction

The vision of *Powersoft19's* leadership is to make each team member own the company—and its clients—as their own. This vision of empowering people fosters creativity, growth, and intellectual stimulation leading to the achievement of our mutual goal: satisfying our clients. We welcome you to come, visit us at our offices to discover how we ensure ultimate client satisfaction, and why we love doing it.



Our People

A Team for Future

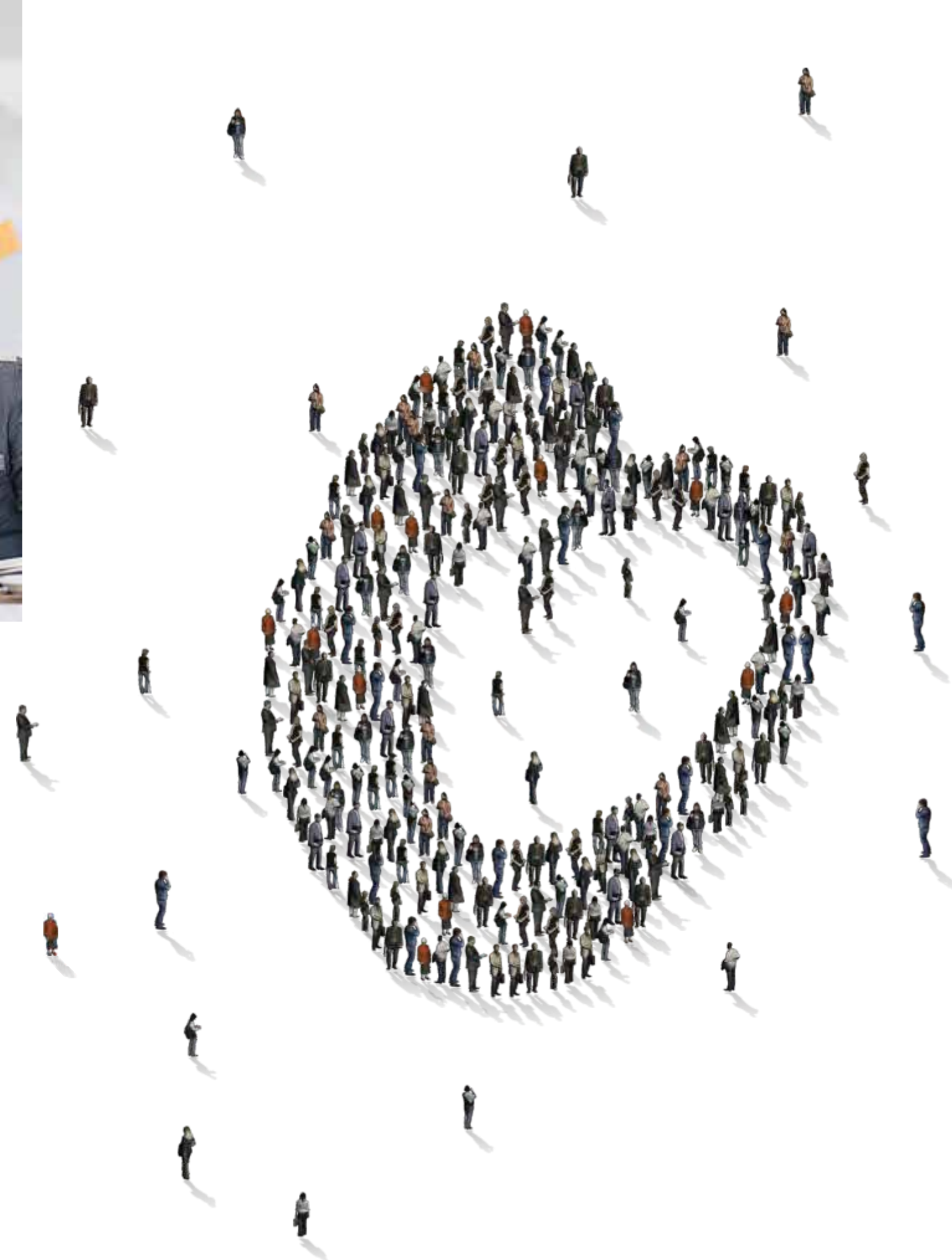
Selecting the right team on which you can rely is essential not only for the bottom line but also to the future of your business. In this ever-changing world of cutting edge technology, the most important decision you make is to build a team that meets your needs today and grows with you in the future. At Powersoft19 you'll find a ready partner for today's and tomorrow's needs.

Supportive Ecosystem

Thriving in and contributing to the supportive ecosystem of Powersoft19, our team brings innovation in everyday business processes and extracts value in all possible ways. We capitalize on this creativity-friendly environment to bring novelty in ways to create, manipulate, store, transmit, retrieve, and experience various forms of information.

One Goal

With over 400 highly experienced team members having breadth of technical skills, everyone at Powersoft19 plays a critical role in the success of the company. Our team comprises of the most qualified professionals who love the thrill of solving clients' challenging problems. At Powersoft19, everyone who participates in a project brings an unmatched experience profile and the quest to be the best support for our clients.



Clients



Powersoft19 has established its credibility through transparency and persistent performance. Our major clients have been with us for more than 8 years and new clients are also looking forward to building a long and successful relationship with us.



Industries



Aerospace



Automotive



Gas Detection



Healthcare



Material Handling



Mining



Power



Rail

Services

Powersoft19 delivers comprehensive and versatile high-tech services encompassing tailor-made design and development of integrated systems. We are dedicated to our aim of providing dependable solutions and base our service offerings after precisely understanding client's business requirements. Our business domain knowledge coupled with vast experience and technological competence helps us deliver cost-effective results while providing competitive advantage and maximum productivity.



Safety-Critical Embedded Solutions

- New Product Development
- Systems Re-Engineering
- Maintenance and Customization
- Standards Conformance
- Safety Consultancy and Assessment
- Product Documentation
- System Dynamics Modeling
- Process Improvement

Embedded Firmware

- Firmware for Industrial Products
- Firmware for Consumer Electronics Products
- Embedded Linux
- Custom Android Kernel
- Driver Development
- Firmware for Extremely Low Power Appliances
- Human Machine Interface Design
- MISRA C Compliant Firmware

Hardware Engineering

- RF Design
- Digital Design
- Analog Design
- Electronic Packaging
- DfX Services
- Prototyping
- Hardware Testing Services
- Certification Oriented Hardware Design

Quality Assurance

- Software Testing
- Test Management
- Stress/Load Testing
- Agency Approval
- Requirements Analysis
- Functional Testing
- Static and Dynamic Analysis
- Test Automation
- Standards Conformance
- Security Testing
- Compatibility Testing
- Mobile Testing
- Performance Testing
- Big Data Testing

Automated Test Management

- End-to-End System Level Automated Testing
- Industrial Equipment Automated Testing
- Black/grey/white Box Automated Testing
- Web Applications Automated Testing
- Mobile Applications Automated Testing
- Automated Test Equipment at Production Line
- Bed and Nail Testing
- Modular/data-driven/keyword-driven/model-based Test Automation Framework

Enterprise Applications Development

- M2M Market
- Business Process Automation
- Business Intelligence
- Apps Based on Open Source
- Mobile Applications Development
- Energy Management Solutions
- Distance Learning Systems
- Airline Loyalty Systems
- Strategic War Games
- Hospital Management Systems
- Internet Based Training Systems (IBTS)
- Online Testing Systems
- Project Management and Tracking Systems
- Customer Support Systems
- Online Insurance Claim Systems

Mobile Applications Development

- Android Apps
- IOS Apps
- Windows Phone Apps
- E-commerce/m-commerce Apps
- Game Development
- Apps For Microsoft Dynamics

Multimedia

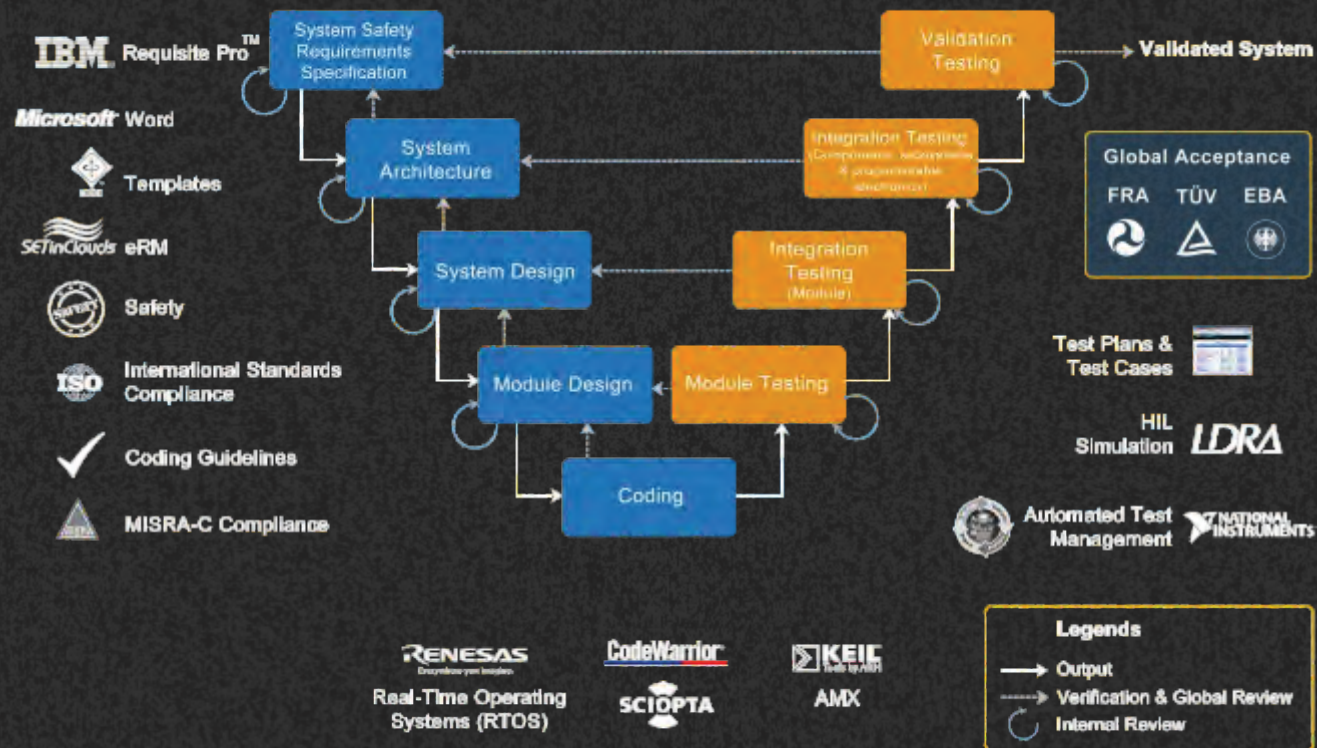
- Web Designing and Development
- Trade Show Animations Development
- Mobile Applications Development
- Product Training for New Product Launch
- Logo Designing
- 3D Modeling and Simulations
- 2D to 3D Conversion
- Video Production

IT Managed Services

- Managed IT Support Services
- IT Service Desk
- Network Infrastructure Managed Services
- Server Infrastructure Managed Services
- Business Continuity Management
- Network Design Services
- IT Consultancy Services
- IT Asset Management

Processes

Powersoft19's competencies are built on the strength of its team members who consistently explore and master new technologies for efficient project turnover. The V model of software development enables us to deliver high quality solutions while maintaining transparency throughout the project life cycle. By matching our technical expertise with the appropriate development process, we take up the challenge of today's ever-changing business requirements.



Technical Expertise

Embedded Firmware/Software Skill Set

Applications	M2M Rail Industrial Automotive Health Care Gas Detection Communication
IDEs and Compilers	Microsoft Visual Studio, Visual GDB, Eclipse IDE for C/C++ Developers, Freescale CodeWarrior IDE, Silicon Labs Simplicity Studios, MPLab X IDE, Compilers: CodeSourcery toolchain gnu c/ C++ for m68k and ARM9.
Code Analysis	LDRA PCLint, FlexLint, SQLLint, Source Monitor
Protocols/Stacks	JTAG, Jlink, Ethernet, CAN2.0, RS-232/422/485, SPI, I2C, One-Wire, USB2.0, SD/SDIO/MMC/SDHC, CAN 802.11a/b/g, Bluetooth, GSM, CDMA, TCP/IP, Modbus, CANOpen, J1939, DeviceNet, Profibus, ProfiNet, FAT16/32
RTOS/Platform	
OS	
Microcontrollers/ Microprocessors	<p>(R8C, M16C, M32C, RX, SH77xx) (ARM9, ARM11) (PIC18, PIC32, dsPIC33) (MSP430) (Coldfire 548X)</p>

Hardware Skill Set

Schematics	ORCAD Capture, Concept HDL, Altium Designer, Mentor Graphics Expedition, and Circuit Space
Layout Design	Cadence Allegro, ORCAD Layout, Altium Designer, Mentor Graphics Expedition, Circuit Space, Polar Instruments SI8000, View Mate, CAM350, and Genesis 2000
Signal Integrity	SPECTRA QUEST, Altium Designer, Cadence SI Tool, and Hyper Lynx
Power Integrity	Cadence PI Tool
Thermal Integrity	Solid Works and Hyper Lynx Thermal
Simulations	Altium Designer, LTSPICE, Multi-Sim, Hyper Lynx, and Synopsis HSPICE
Manufacturing	CAM350 and Internal Scripts
Test Programs	LabVIEW/NI Test Stand
In Circuit Test	Bed of Nail Tester
Electronic Packaging	Solid Works, AutoCAD, and Pro-E

Miscellaneous Tools

Platforms	Windows, Red Hat Linux, and Sun Solaris
Object Modeling	UML, OMT, Rational suite, ERwin, Visio, and PowerDesigner
Architectures	SOAP, CORBA, RMI-IIOP, and DCOM
Frameworks	DotNet Framework, .Net Nuke, php Nuke, and Entity
Languages	Java, JavaScript, Delphi, C/C++, and .Net Languages
Application Servers	Web Logic, Web Sphere, IIS, Apache, and Jboss
Database	Oracle, MS SQL Server, DB2, and SQL Anywhere
Quality Assurance	LDRA, McCabe, PC Lint, SQM Lint, and CCCC QTP/UFT, Test Complete, AutoIT, and Load Runner Advance Data Generator, Red Gate, Matlab, Modelsim, and Simulink Acunetix, AppScan, Zed Attack Proxy Project, WebScarab, Wireshark, and Ratproxy JAMA, JIRA, Quality Center, and TFS
Multimedia	Adobe Authorware, Acrobat Reader, and Flash Sound Forge, Adobe Premiere Pro, Cakewalk, Adobe After Effects AutoCAD, SolidWorks, Pro/ENGINEER, 3ds Max, AutoCAD Map, AutoCAD LandDesktop, Lightwave, Maya, and TrueSpace



Our Approach to Quality

Customers as Focal Point

The focus of our quality approach is the ultimate customer satisfaction. We find out customers' stated and unstated requirements to deliver them the best quality. Our team owns customers' problems as its own and works vigorously to solve these problems in the most effective manner.

Integrated Knowledge-base

Our policy to stay current with the latest quality standards is at the core of our quality approach. Equipped with this expert knowledge; we devise systematic, integrated processes to ensure the quality of our client's products against these industry standards.

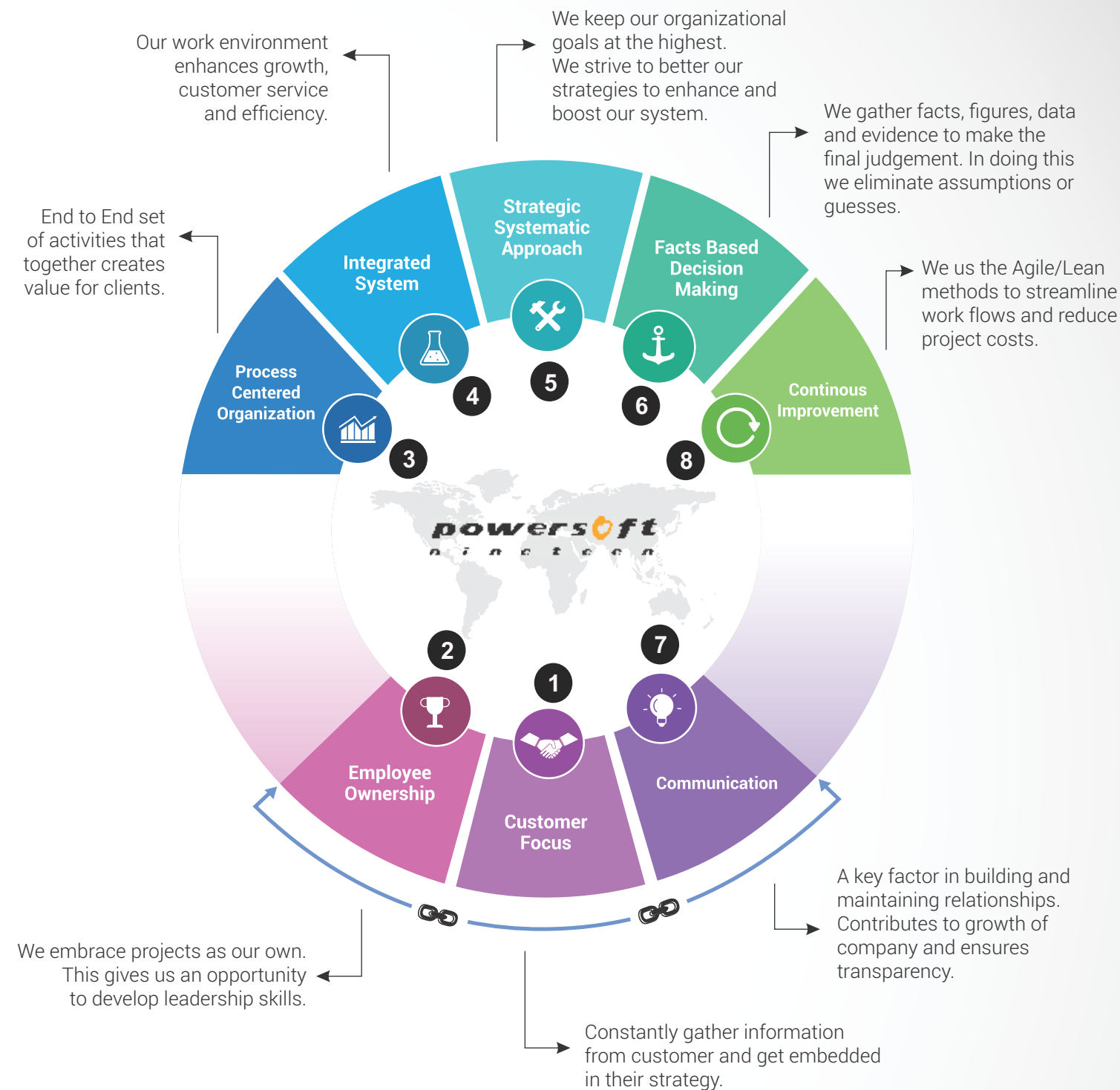
Certified Quality

Powersoft19 is an ISO 9001:2000 certified software development facility and cherishes quality as one of its core principles. We build our products strictly according to industry standards and help our clients get third party approvals for their products. Following are some of the standards for which we have successfully delivered many safety compliant projects and executed third party audits. We have an excellent track record in achieving agency approvals for industrial products from European and American safety agencies ranging from Safety Integrity Level SIL 1 to SIL 3:

- IEC 61508
- IEC 61511
- EN 50126/EN 50128/EN 50129
- EN 13849
- EN 50271
- EN 50402
- IEC 6060
- ISO 26262
- ISO 27001
- ISO 22301
- UEAS Management Systems CB-010

Continuous Improvement

For us, at Powersoft19, a quality product is one that pleases its users in unexpected ways. To achieve this, we pay attention to every pixel so that the quality is improved incrementally in every possible way. We assure that each product we help build is rated as the best in terms of functionality, reliability, productivity, and scalability.



- 1 Customer Focus**
Focus, Expectations, Customer Centric Approach
- 2 Employee Ownership**
Communicate, Coaching, Initiative
- 3 Process Centered Organization**
Clients, Together, Group, Results
- 4 Integrated System**
Productivity, Cost, Customer Satisfaction
- 5 Strategic & Systematic Approach**
Goals, Resources, Actions, Structure, People
- 6 Facts-Based Decision Making**
Clarity, Criteria, Decision, Implementation
- 7 Communication**
Identify, Understand, Solution, Monitor
- 8 Continuous Improvement**
Plan, Execute, Implement, Review

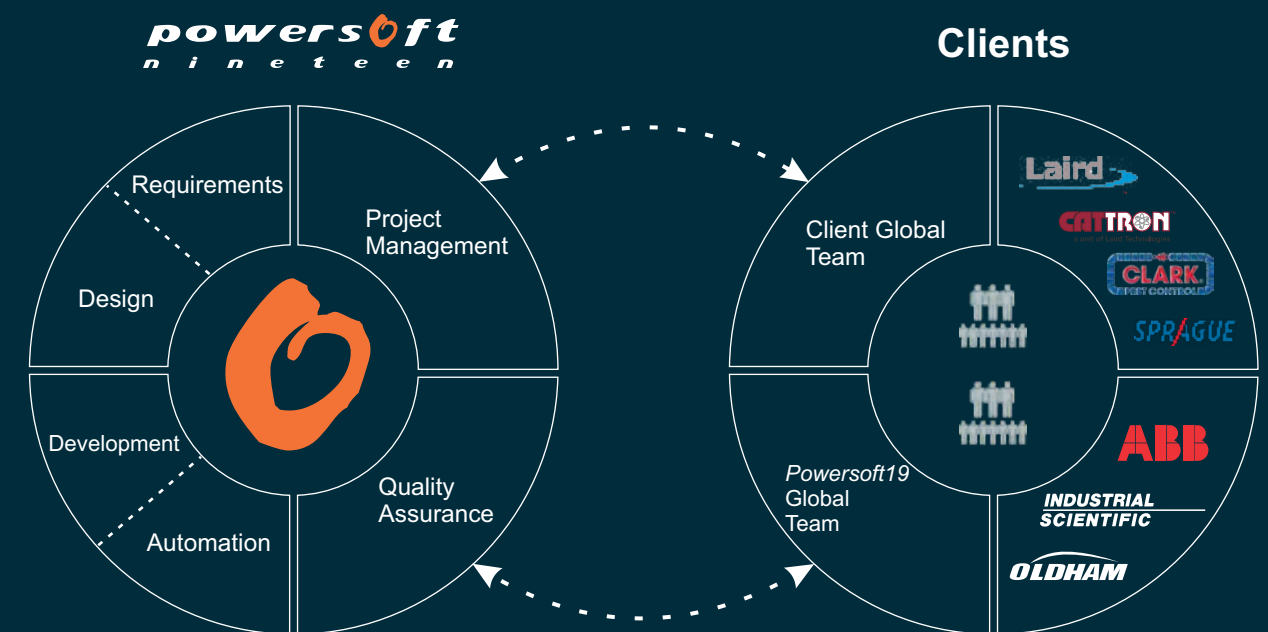
Offshore Software Development



Our offshore project management processes are made to suit the unique requirements of diverse industries. Our transparent offshore interface allows the clients to benefit from the economies of offshore development, without the hassle of dealing with a remote vendor.

Our offshore project management methodology eliminates the complexities inherent in a long-distance working relationship. We effectively manage geographical distance, time zone differences, lack of personal interaction, and cultural differences. In fact, we use these complexities for our clients' benefit:

- Rapid turnaround time improves project schedules and deadlines.
- Lower costs allow us to put a much larger team to work on a project and get it done faster.
- To overcome the global time differences, *Powersoft19* team has developed a 24-hours workday schedule.
- Readily available high-speed data links, phone lines, and video conferencing systems keep our communication intact.
- Due to *Powersoft19's* transparent interface, our clients eliminate their travel, communication, and project management costs.





Get Started...

As this brief summary of a diverse organization can't satisfy the need to know more, we have plenty of avenues where you may find out more about us.

In order to know more about our services, company, team members, and industries served, please visit our website at: **www.powersoft19.com**

To know details of specific projects or work experience with a particular client, drop us an email at: **info@powersoft19.com**

In order to explore ways to use our expertise in growing your business and to partner with us, call our consultants at: **+1 (865) 686 8124**

*We'd love to hear
from you!*



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Systems Engineering

Safety - Critical Embedded Solutions

IT Managed Services

Multimedia Solutions

Enterprise Resource Planning ERP

Quality Assurance

Enterprise Applications Development

Hardware Engineering