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PIE Systems International, Inc. Software Consulting and Development Corporation



Founded in 1990 PIE Systems International, Inc. develops advanced custom applications, large Data Base systems & commercial software products, designs models of business systems, creates technical design from business requirements, solves complex business & system problems using state-of-the-art technologies, designs architecture of strategic secure corporate information systems. PIE Systems is capable of working on multiple projects under demanding deadlines.

Profile:

PIE Systems designers, architects and developers have MS or PhD in Computer Sciences with 10-20 years of experience each and in depth knowledge in building technology infrastructure, software products and enterprise applications in the areas of Web Architecture and Security (.NET and J2EE), Middleware, Web Services, N-tier Distributed Object Architecture, EAI, XML, TCP/IP, OLTP, network OSI layers, document management/imaging, ASP platform, B2B & B2C systems, workflow, unified messaging & EDI systems.

Company expertise:

Languages: C, C++, C#, Java, VB.NET, XML, SQL, JavaScript, Perl, PHP, DHTML, Visual Basic, and Assembler.

Operating systems and environments: MS Windows 2003/2000/NT, .NET, Linux, Solaris, J2EE, MVS OS/390, UNIX, VM/CMS.

Technology & Tools: Apache, IIS, UML, OMT, SOAP, XML, XSL, .NET/COM/DCOM/COM+, Compilers, Parsers, ISAPI, NSAPI, ActiveX, Java Applets, LDAP, OLTP (Tuxedo, CICS), WebLogic, Web Sphere, MSMQ, MQ-Series, Visual Studio, CORBA, TCP/IP, Cryptography, OCR/ICR.

Databases: Oracle, MS SQL Server, Informix, Sybase, DB2, and MySQL.

Applications: Provisioning systems, E-commerce, Revenue Management and Tax administration systems, Insurance systems, CAD/CAM Manufacturing systems, Inventory systems, Treasury systems, Workflow, Messaging & EDI systems, OLTP, Document management, Document imaging, Billing systems, Device drivers, Security and Encryption systems, Payment Systems, and ERP for highly sophisticated businesses.

Partial list of projects and clients:

Pinnacle Manufacturing, Inc.:

Project: Design and development of the CAD/CAM Web Application for design, resource planning, and manufacturing of Countertops. The application is based on SVG and .NET platform.

BearingPoint, Inc. (formerly KPMG Consulting):

Project: Design and development of the proof of concept Survey/Data Capture system for USAF.

BearingPoint, Inc. (formerly KPMG Consulting):

Project: Data Conversion from IBM Mainframe based Legacy Tax system to .NET based Revenue Management System for RITA (Regional Income Tax Agency).

Project included architecture, design and development of the data conversion application and .NET based bulk processing framework (batch processing, Bulk Import/Load, and performance optimization).

Markel Insurance Company:

Project: Design and development of the proof of concept Insurance Rating system based on .NET and new architecture.

BearingPoint, Inc. (formerly KPMG Consulting):

Project: Development of .NET based highly complex Revenue Management System for RITA (Regional Income Tax Agency).

Project included the standards, architecture, design and development of the .NET based Revenue Management System, and .NET based application framework (Web Forms/UI, Business Services, Business Objects, Web Services, batch processing, Integration with FileNet imaging system, Integration with Siebel CRM system, and performance optimization).

BearingPoint, Inc. (formerly KPMG Consulting):

Project: Development of .NET based Security system for RITA Tax Administration System (NGuard for NTAX).

Project included the architecture, design and development of the .NET based application security framework (Web Services security, SQL Server security, MSMQ security, and Single Sign-in Authentication system).

SONY Electronics:

Project: Development of the Web based subscription management system.

Project included design and development of the provisioning, application integration, security, content management, and administration system, the design of the infrastructure, software development of the distributed Web system, Application and Database Security, server hardware and network architecture.

Distributed Web system is based on XML HTTP services and includes: provisioning system, integration with multiple ISP provisioning systems, CRM, software distribution, dynamic XML/HTML content management Portal with XML HTTP interface to multiple content providers, IMAP/SMTP email with attachments conversion, administration system.

Nortel Networks:

Project: Web based distributed Multi-ASP Framework.

Project included development of Tuxedo based distributed back-end system for Internet Multi-ASP Framework project and OLTP Integration Broker for a large distributed WEB system, integrating multiple applications (WebLogic Portal, CRM, Billing, LDAP, Oracle, Epicon, Citrix, InterMail, etc).

VideoBanner.com and CISCO Systems:

Project: Internet streaming media product within Unified Messaging system.

Project included development and implementation of voice email messages streaming server for IIS/NT, Apache/Linux, iPlanet WEB server/Solaris and all IMAP servers.

State Tax Administration of Ukraine:

Project: Modernization of State Tax Administration of Ukraine in coordination with World Bank.

Project included modernization concept and model (business process model, object data model, functional model, org model), strategic IT architecture, Security architecture, and development of key WEB enabled applications:

Tax collection system,

Tax accounting system,

Taxpayer registration system,

Enforced collection and arrears management system,

Tax declarations processing and archival system,

Control system of illegal flow of goods, administration of confiscated goods and properties, logistics.

Information Technology used in the project

Databases: Oracle, MS SQL Server, and Sybase.

Languages: C++, Visual Basic, SQL, JavaScript, DHTML.

Operating Systems: MS NT Server, OS/390, Linux, and AIX.

Technology & Tools: Message Oriented Middleware, Web Enablement, Three-tier client-server systems, component object model (COM/DCOM/COM+), Workflow, OLTP, Intranet, Visual Studio, Power Designer.

Treasury Department of Ukraine:

Project: Business Process Re-engineering and development of new architecture and functional model.

Central Bank of Russia:

Project: Fault tolerant distributed real-time payment system.

Modernized existing payment system to provide fault tolerance and load balancing for multiple settlement centers, enhanced system security.

OSIware (software subsidiary of Infonet):

Project: Development and implementation of the X.400 messaging & EDI client for Infonet customers (Marconi, Portugal, Embratel, Brazil, etc).

PIE Systems International, Inc.

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