

ESN Technologies, India  
Providing the best IT Solutions for your needs



Solutions  
with

Microsoft® Technologies



Your Preferred Software Development Partner

Everest Consultants Inc., USA  
Reaching new heights in software consulting

## About Everest Consultants and ESN Technologies

**ESN Technologies (India) Pvt Ltd (ESN)**, is the Solution Center of **Everest Consultants Inc. (ECI)**, a US Company headquartered in Portland, Oregon. ECI is a leading Software Consulting firm, which specializes in offering onsite-consulting services to companies across the USA, including Fortune 500 companies such as Intel, HP, Microsoft, Texas Instruments, Winbond and APS Health care. ECI is recognized as one of the fastest growing companies by several independent surveys. It is rated as a USA Fast 500 and Oregon Fast 50 company by Deloitte & Touché. Portland Business Journal has rated it as one of the fastest growing private companies for three consecutive years.

*ESN is an ISO 9000 Company & Microsoft Certified Partner, having over 2000 Person-years of collective experience in executing international Software Development Projects. Majority of our staff are 'Microsoft Certified Professionals', developing cutting edge solutions and providing top notch consulting services to Top Organizations around the world.*

We are an established software development firm with clients from USA, Europe and South East Asia with a successful track record of projects to our credit. We are positioned to address a variety of IT requirements, spanning the complete spectrum of computing environments and for diverse industry segments. Whether it is a new product development, maintenance, porting, migration, or re-engineering, we can rise to the challenge and deliver the most appropriate solutions

ESN Technologies is a preferred enterprise solution provider for many International Businesses. We focus on solutions, tailored to the client's unique requirements. We use a methodical approach to understand our client's vision, strategy and processes, prioritize business needs, determine the 'best-fit', and then implement the best of breed solution – hence our byline “Providing the best IT Solutions for your needs”.

We're technologists with the right complement of management skills. We have a team of motivated and committed professionals who are capable of providing high quality and cost-effective solutions to partners around the world.

We have expertise in developing custom multi-user systems for the Microsoft '9x, NT and 2000 platforms. Our state of the art solutions are designed to provide for a wide range of client requirements, using proven products such as: Microsoft NT Server and BackOffice, SQL Server 7.0 & 2000, Visual Basic, Visual C++, Visual Interdev, ActiveX, Access, Excel, etc.

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**ESN Technologies** provides software solutions across the whole range of Microsoft Technologies based on the clients' requirements. Apart from providing solutions to its clients, ESN is also working on products based on MS technologies including the .NET framework in the fields of *Human Resource Management and Highly customizable internet/extranet solutions*.

## Why Choose ESN Technologies?

**We offer:**

- Exceptional technical skills - we have one of the highest ratios of Microsoft certified staff.
- A robust, fast-growing organization with a strong management team and the support of our parent company, Everest Consultants, Inc.
- A Microsoft Certified Partner – We are one of the major companies in Hyderabad, who successfully provide solutions using Microsoft Technologies.
- A well-earned reputation for providing highly professional services to a broad customer base.
- Industry-leading capabilities in the successful application of innovative technology to solve business problems. We specialize in "bridging the gap" between business and technology.
- We keep our customers happy: We continually achieve a high-level of customer satisfaction in our regular surveys.

## ESN Technologies - Core Strengths

ESN has provided successful solutions using Microsoft Technologies to multiple clients in a variety of domains. Examples of the core areas where we have experience and expertise are as follows:

### Desktop Applications

Microsoft offers the following technologies to build powerful desktop applications:

- MS Visual Developer Studio (includes VC++, VJ++ and VB) – The leading Integrated Development Environment used by software developers around the world. Visual Studio has now been enhanced to support the .NET framework.
- MS Office (MS Word, MS Excel, MS Access, MS PowerPoint and MS Outlook) – the leading Office Automation and Productivity tool, which can be customized and programmed to suit diverse needs.

ESN has expertise in these technologies, which it has effectively utilized to address client requirements as demonstrated below:

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<b>CAD Translation Tool</b>  This tool provides a generic architecture for the translation of CAD data from different formats to the client's own format. This allows the company to cater to a larger market. The tool also allows the user to carry out verification of the source file (prior to translation) and of the target file (post translation). The result of this verification is provided as a report to the end user as needed. The tool is composed of four components, each with a well-defined functionality. It generates a text output in the target format. However, it allows the user to browse/ modify this by providing hooks to text and graphical editors. The tool provides both a wizard and non-wizard mode for operation in its user interface. Design of the software was accomplished using the UML and Rational Rose 98.	Microsoft Visual BASIC  Windows 9x/NT 4.0  COM

### **CAD Verifications Tool**

This tool checks CAD data for syntactic correctness and for the 'goodness' of data as it relates to corresponding PCB designs. The syntactic correctness checks ensure that the data meets the standard specifications for CAD data. The "goodness" tests go beyond the syntactic checks to ensure that the data does not violate any design criteria. The tool has five components, each with well-defined functionality. It generates a quantitative summary of the CAD file, indices corresponding to complexity of manufacturing, and reports on the syntax and goodness checks it performs. Output can be generated in different formats: plain ASCII, HTML, etc. The tool also allows the user to invoke external text and graphical editors to manipulate the data. It provides both a wizard and non-wizard mode for operation in its user interface.

Microsoft Visual  
C++

Windows 9x/NT  
4.0

COM

### **Fixturlaser Documenter**

The system obtains information related to machine alignment from laser devices located on the factory floor. The user can obtain, classify, document, store and retrieve these measurements. The data can be manipulated and relevant reports can be generated on captured data. The software is distributed with the laser alignment systems for use by the client's end users. Some of the features that the software provides include: serial communication with the client's display units, drag and drop for measurement data, labeling of measurements, zooming of measurement reports, storage and retrieval of measurement data from the Microsoft Access database, formatting and printing reports, change of reference for some measurement types.

Microsoft Visual  
C++ 6.0

COM

MFC/ATL

Windows MTF

MS Access and  
ODBC

## **Web Applications**

Microsoft offers the following technologies to create high performance web-based applications:

- Internet Information Server for serving http pages to multiple Internet users
- MS Back Office Suite comprising.
  - MS SQL Server – The leading enterprise-class database for driving mission-critical applications.
  - MS Exchange Server – For Enterprise messaging and collaboration solutions.
  - MS Commerce Server – For quickly creating industry-strength e-Commerce solutions by providing pre-built business components.

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- MS Transaction Server – For deploying and managing the COM components so as to facilitate implementation of high-performance client-server solutions.
- Active Server Pages – Dynamic pages that use the powerful Active X technology to display active content to the Internet users.

ESN has developed the following applications leveraging on the server-side technologies offered by Microsoft:

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<p><b>Inventory CTRL</b></p> <p>The CTRL Systems's <i>CTRL Inventory System</i> is a distributed system that allows the complete tracking of any consumable inventory (stocked or non-stocked) from order through product receipt and issuance. This system is being developed as a browser application using Active Server Pages (generated by a VB IIS Application), HTML and DHTML. It extensively uses COM for communicating with various system components for various functions.</p> <p>The system is a migration from an existing legacy DOS based system. The current system has all the functionality of the DOS based system and provides a web based /user-friendly interface.</p>	<p>Microsoft Visual Basic 6.0 and Active Server Pages</p> <p>COM, MS Access and ODBC</p> <p>Windows 2000</p> <p>Internet Information Server 5.0</p>
<p><b>Find A Clinician</b></p> <p>The Application supports an interactive web-based Employee Assistance Program (EAP) as the platform for creating a new e-health product. This product is a web-based healthcare service, supported by an integrated 24 x 7 telephonic staff and consumer self-referral to a network of contracted providers. The new service will expand beyond behavioral health to also provide consumer empowering information and other forms of self-help in the management of six primary diseases. The appeal of the product to non-health mass distribution channels will be enhanced by the addition of popular “work-life” and concierge services. Ultimately, this product may evolve into a healthcare portal.</p>	<p>Microsoft Active Server Pages (ASP)</p> <p>Microsoft Visual InterDev</p> <p>Microsoft SQL Server 7.0</p> <p>Microsoft Windows 2000 Server</p> <p>Internet Information Server 5.0 Microsoft Active Server Pages (ASP),</p>

**Digital Market Place**

We are working on a Business-to-Business marketplace that will enable paid vendors to set up storefronts and catalogs using web-based forms. Buyers (Individual or Corporate) can submit queries, do online purchasing, or conduct other business transactions with these vendors. For example – buyers may solicit quotes for a specific requirement or ask for a price discount. Vendors are notified of communication from prospective buyers, and can post responses via the system. Prospective buyers can also post RFPs, which can be viewed and responded to by qualified vendors. Corporate purchasing accounts can set up a hierarchy of users, so that the purchase requests initiated by a buyer could be routed for approval by his or her supervisor. The system also provides for alternate payment mechanisms; for example – credit cards for individual buyers; online invoicing and offline payment for registered corporate buyers.

Microsoft Visual

InterDev

Microsoft SQL Server 7.0,

Microsoft Windows 2000 Server

Internet Information Server 5.0

**Talent Bank**

Talent Bank keeps track of candidates' resumes, categorizes them by domain and experience, and facilitates the communication process between the applicants and the employer. The system has intelligent agents to organize, track, maintain and match applicants to open requisitions. In addition, the system manages the recruiting process for optimum results. The system is web-enabled, facilitating Enterprise-wide use over corporate intranets. Talent Bank has been developed in a client- server model, with SQL Server as the backend database and the client developed with Visual Basic, DHTML and ASP. The system can be customized to specific customer needs and can provide value to any organization with recruiting needs.

MS SQL Server 7.0

Microsoft Active Server Pages, VBScript

Index Server

Windows 2000 Server

Internet Information Server

## Device Drivers

Microsoft offers WDM (Windows Driver Model) technology to create efficient device drivers for the Windows environment. ESN has used the same to develop the following:

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<b>Device Drivers for Texas Instruments</b>	Microsoft Visual Studio
This client has a virtual monopoly of the Cardbus Controller market with their product in over 90% of all laptop computers. They would like to integrate Cardbay (smartcards and memory sticks) into the PCMCIA slots, as Microsoft does not have this software on their roadmap. The client must create CARDBAY STACK software in the interim in order to be able to effectively use Cardbay. We are developing a firmware loader and the drivers to support this effort.	Windows 9x/2000 Driver Development Kit
	Windows 9x/Windows 2000

## Enterprise Solutions

Microsoft technologies can be leveraged to create powerful distributed applications with 3-tier / n-tier architecture. Some of those technologies include:

- MS Transaction Server
- MS Commerce Server
- COM / DCOM technology
- Simple Object Access Protocol (SOAP) etc.

ESN, in view of its expertise on these areas, has created the following Enterprise-wide applications to meet its diverse client requirements.

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<p><b>HVE Simulation</b></p> <p>The HVE reconstruction simulation is a tool that creates <b>3-D</b> models of humans, vehicles, and the environment. Users can setup events involving these elements by assigning positions, velocities and other attributes. The events are executed using a simulation or reconstruction model selected by the user. Separate events involved in motor vehicle crashes can be combined into a single coherent sequence. The sequence can be directed to a video recording device, a printer or a plotter. The system is currently running on a Silicon Graphics environment. We are porting this tool to the Microsoft environment.</p>	<p>Microsoft Visual C++</p> <p>Open Inventor</p> <p>Windows NT 4.0</p>
<p><b>IRIS Enhancements</b></p> <p>This project enhances functionality of an existing application (IRIS) for APS Healthcare. The purpose of this project is to meet specific requirements of some of APS' clients regarding data capture, user interfaces and reporting features.</p>	<p>Microsoft Visual BASIC 6.0</p> <p>MS SQL Server 7.0</p> <p>Microsoft Active Server Pages, VBScript</p> <p>Crystal Reports 8.0</p>

## Components & Plug-ins

ESN has developed the following, using Microsoft's Component technologies in addition to some of the Desktop and Web applications which have used COM technology too.

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<b>TestStrip</b>	Microsoft Visual C++
<p>We have carried out the enhancement of a major award-winning PhotoShop plug-in. The product was originally designed to make color-correction and proofing easier, faster, and more precise. The plug-in divides an image into sections showing the result of adding or subtracting amounts of color, density, contrast, or saturation in increments as small as 1%. The strip layout can be customized in several ways. This plug-in can be used by anyone who works with color images - graphic designers, photographers, photo-labs, publishers, advertising agencies, illustrators, offset printers, on-demand printers, wide-format printers, service bureaus, webmasters, pre-press houses, scanner operators, and educators can all benefit from its unique and powerful features. We worked on major enhancements of this plug-in and the creation of its next release.</p>	Adobe Software Development Kit

## .NET Solutions

The .NET framework of Microsoft takes distributed computing to the next level by leveraging on the XML universal data interchange protocol. ESN is building its competence in this emerging paradigm by the following development activities, aimed at offering .NET experiences to its clients:

<b>Project Profile</b>	<b>Microsoft Technologies</b>
<p><b>e-HR Framework</b></p> <p>The e-HR System provides a framework that defines two core base services.</p> <ul style="list-style-type: none"><li>➤ Recruiter Services</li><li>➤ Job Seeker Services</li></ul> <p>In addition, there is a registration module that allows recruiters and job seekers to signup with the system in order to use the base services.</p> <p>This application is being developed in Microsoft Visual Studio's .NET framework.</p>	<p>Microsoft .NET Framework</p> <p>Visual Studio .NET</p> <p>Microsoft SQL Server 7.0</p> <p>Microsoft Windows 2000 Server</p>
<p><b>ESN Online</b></p> <p>ESN-Online service provides a scaleable, distributable service that can be used by individuals or corporate users. ESN-Online provides two services - Content Creation and Content Delivery. The Content Creation service is meant for Domain Experts who provide the inputs related to the Question Bank for on-line tests. The Content Delivery service provides the tests for the individuals and corporate users. In short its creation and delivery of online tests. The idea is that a corporate can subscribe to the Content Delivery service and pay as they use the service. The service model allows them to have total control over the administration of the service and also allow them to customize the look and feel of their implementation using the service.</p>	<p>Microsoft .NET Framework</p> <p>Visual Studio .NET</p> <p>Microsoft SQL Server 7.0</p> <p>Microsoft Windows 2000 Server</p>

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**SMS Messaging Application**

This service allows corporate users to use SMS messaging in a versatile manner to send out reminders, notices, and information to their corporate clientele and sales staff. This can fit into CRM applications, corporate customer databases etc. It allows users to define the rules and the messages to be sent out. A client side service checks for the rules and on applicability of the rules sends out instantiated messages to the appropriate end-users.

Microsoft .NET  
Framework

Visual Studio  
.NET

Microsoft SQL  
Server 7.0

Windows 2000  
Server

## Conclusion

This document describes a few of the projects implemented by us to demonstrate our capabilities and strengths in executing software development projects with Microsoft Technologies. We are committed to continuing this practice by working closely with our clients and with Microsoft to bring the best solutions to the market. This experience can be leveraged to your advantage by working with Everest Consultants and ESN Technologies.

**ESN, A World Class Solution Center, with people who are highly professional & Customer-centric with the right skills-set to be your 'Preferred Partner'.**