

# Introducing Nu-Pulse

technologies

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NU-PULSE

# The Company

technologies

## □ Corporate Focus

- Nu-Pulse is a full service technology and systems integration consulting organization.
- We have developed a core competence in the area of Information Systems, Fire Protection Engineering, Security, Design Build, software development, complex systems design, and provide solutions in accordance with best practices.

## □ Corporate Staff and Management

- Nu-Pulse is staffed and managed by professionals who understand the impact of technology on business processes.
- Our success is based on the ability to translate diverse business requirements into the design and implementation of manageable, efficient systems.

NU-PULSE

# The Company

technologies

## □ Corporate Divisions

- Information Technology Division
  - » IT Consulting and Medical/Health Systems
- Defense
  - » IT Consulting and Information Engineering
- Fire Protection Engineering Division
  - » Systems Audits, Compliance and Review
  - » Systems Engineering, Design and Installation
- Security Division
  - » Systems Engineering, Design and Installation

NU-PULSE

# The Company

technologies

## □ Services

- We provide consultants who are skilled in the most innovative technologies and methodologies.
- We staff entire projects, providing project management services and full project life cycle staffing support, as required by the client.

NU-PULSE

# Past Performance

## Rated by Dunn & Bradstreet

- In 1999 Nu-Pulse rated 1.3 on a scale of 1 to 5, 1 being a perfect score. Nu-Pulse is currently Rated 93 out of 100.
- Ranking factors
  - » Quality of product produced
  - » Quality of services provided
  - » Delivery on time
  - » Delivery within Budget
  - » Knowledge of staff
  - » Responsiveness

# Satisfied Customers

## □ Fire Protection Engineering

- U.S. General Services Administration (GSA).
- U.S. Department of Treasury, Internal Revenue Service (IRS).

## □ Physical Security Installation

- Maryland National Harbor.
- Federal Emergency Management Agency (FEMA).
- Austin Spriggs & Associates, Architects and Engineers.

# Satisfied Customers

- **U.S. Department of Defense (DoD) – IT Consulting and Information Engineering**
  - U.S. Department of Defense (DoD), Office of the Inspector General
  - U.S. Department of Defense (DoD), Information Technology Directorate
  - U.S. Department of Defense (DoD), Financial Management Directorate
  - U.S. Department of Defense (DoD), Personnel Security Division
  - U.S. Department of Defense (DoD), U.S. Army
- **Information Technology – IT Consulting and Health Systems**
  - **Health System - Integration and Migration**
    - » District of Columbia, Women Infant and Children (WIC) State Agency
    - » Mary's Center Health Clinics
    - » Howard University Hospital
    - » Chartered Health Care
    - » Children's Hospital
    - » Unity Health Clinics
    - » Maryland MRI

# Satisfied Customers

## □ Civilian Government - Application and Database Development and Support

- U.S. Department of Agriculture (USDA)
- U.S. Department of Commerce, Bureau of the Census
- U.S. Department of Transportation, Maritime Administration
- Government of the District of Columbia, Office of Citizen Complaint Review
- Government of the District of Columbia, Department of Transportation
- Government of the District of Columbia
- Government of the District of Columbia, Dept. of Public Works, Fleet Management Admin
- Government of the District of Columbia Public Schools, Office of the Chief Financial Officer

## □ Information Technology – Network Engineering and Support

- Government - Network Integration
- Government of the District of Columbia, Department of Community Development
- Government of the District of Columbia, Office of Cable Television
- Government of the District of Columbia, Department of Health (DOH)

# Satisfied Customers

## □ Corporate IT Service Providers – IT Support

- IBM Corporation
- Bell-Atlantic (Verizon)
- U.S. Office Products
- Tele Communications Inc. (TCI)
- Price-Waterhouse Coopers, LLC

## □ Corporate Sector - IT Support

- Continental Airlines
- U.S. Lubes

# Satisfied Customers

- U.S. General Services Administration, District of Columbia Government (Prime Contractor)
  - Dept. of Health
    - » Contracted to replace a major IBM mainframe based nutrition benefits system (WIC System) with Client Server Technology.
  - Mainframe to Client Server Re-development
    - » Replacing the existing Mainframe application with a Client Server system developed in Visual Basic and utilizing an Oracle database.
    - » Integrating the Nu-Pulse Inventory module in our accounting application to track all commodities provided to beneficiaries of the WIC program.
    - » Designing and installing a Wide Area Network connecting 14 Sites.
    - » Supplying and installing over 98 desktop computers, 10 servers, and all network hardware
    - » Installing and configuring a Citrix server farm to enable interface to the applications through a browser from all locations.

# Satisfied Customers

- U.S. Dept. of Interior for the U.S. Dept. of Defense (Prime Contractor)
  - Financial Management Directorate
    - » Entered as a new vendor and restored Financial System to operational condition in one hour after it was down for 10 days.
    - » Successfully integrate Financial System in Oracle to Delco's Travel Manager Software replacing 10,000 manual entries a year.
  - Information Technology Directorate
    - » Developed an Oracle application to track inventory, billing and maintenance of all devices on DOD OIG physical and wireless network: pagers, cell phones, calling cards, computers, etc.
    - » Maintained the Target Data Mining System which downloaded data from a World Wide WAN.
  - Personnel Security Division
    - » Developed and maintained the Customer Service Tracking Software. The Oracle application receives, records, and processes complaints from internal employees.

# Satisfied Customers

- U.S. Department of Transportation (Prime Contractor)
  - Maritime Administration
    - » Upgraded DOT Maritime Financial System to a major new release.
    - » Installed and configured new Windows NT and Oracle Database Server to replace old server.
    - » Connected Server to National Wide Area Network
    - » Upgraded FreeBalance Financial Software from Version 2.0 to 2.1, 2.5 and 3.0
    - » Upgraded Oracle databases to new Oracle database format for Version 3.0
    - » Transferred data to new Oracle Database Server
    - » Configured User Access Privileges and security
    - » Tested and deployed new application

# Satisfied Customers

## ■ U.S. Department of Commerce (Prime Contractor)

### ○ Bureau of Census

- » Installed and configured ABRA Human Resources Software
- » Deployed the software across multiple departments
- » Installed software on Network Server and Workstations
- » Developed software to transfer data automatically from main Commerce HR mainframe application to new software
- » Conducted multiple training sessions for users

### ○ Office of Information Technology

- » Assisted with the conversion of the National Census for Agriculture from books to CD ROM.
- » Develop online help software to guide users of the CD on how to access agricultural data and develop reports
- » Developed an interactive software tutorial to teach users of the CD how to use the program

# Satisfied Customers

- Subcontract to local MBE (IMC) to provide IT consulting to DC, Department of Health Medicaid Medical Director
  - Provide subject-matter advice on a comprehensive health system network including hospitals, clinics, pharmacies, and physician offices.
    - » Specification of potential COTS applications and medical application systems.
    - » Specification of “middleware” and integration software.
    - » Specification of security, HL-7, and HIPAA compliance.
    - » Specification of interfaces to data capture devices.
    - » Specifications of help desk support.



# Satisfied Customers

- District of Columbia Government (Prime Contractor)
  - Department of Housing and Community Development
    - » Moved department Information Technology Infrastructure to an upgraded platform in a new building
    - » Migrated all email and data from a Wang Minicomputer to Windows 2000 servers
    - » Designed a new Computer Room with AC power and Data backup systems
    - » Designed and installed a new Local Area Network with vertical Fiber between floors, multiple servers including an SQL database server, multiple login servers, MS Exchange email server, application servers and an internet server
    - » Developed a department wide management application that provided accountability for all housing projects and significant executive reporting
    - » Installed and configured Cisco routers, Cisco switches, over 256 desktops complete with MS office, and Performed help desk support
    - » Built data center, HVAC requirements, electrical requirements.
  - Office of Cable Television
    - » Designed and developed a complaint management application to manage all complaints against the StarPower wireless and Comcast cable services providers

# Satisfied Customers

- District of Columbia Government (Prime Contractor)
  - Department of Public Works, Fleet Management Administration
    - » Designed and supervised installation of a Fiber Campus Area Network connecting multiple buildings
    - » Designed and developed an intranet for use by all District Employees
    - » Designed and developed a Web Based management application to track the preventative maintenance history of thousands of vehicles in the Government. The software uses email to remind departments when vehicles are in need of maintenance services and automatically schedules an appointment for those services to be performed. Schedules checking in and out of vehicles in a motor pool using smart keys
    - » Built out fiber telecommunications infra-structure across campus of 6 buildings.
  - Office of Citizen Complaint Review
    - » Designed and developed a Complaint Tracking system to manage all complaints against police officers. The software tracks complaints, evidence, hearing results, and final actions taken.
    - » Deployed the software across a network
    - » Conducted multiple training sessions for users

# Satisfied Customers

- ▣ General Services Administration (Prime Contractor)
  - U.S. and District of Columbia Departments of Health
    - » Migrating a major benefits application (WIC) from a mainframe to a Web enabled version
    - » Transferring the best features of the systems in Rhode Island and New Jersey making it the best Women Infant and Children (WIC) system in the country
    - » Conducted site surveys to improve technology infrastructure at 28 sites
    - » Designing and installing a new Wide Area secure Private Data Network encompassing 14 sites geographically separated across the city
    - » Installing new Oracle database, email and application server farms to support the new software
    - » Replacing all desktop computers with new computers connected to the internet and supporting MS Office software
    - » Installing Nu-Pulse Inventory module to manage the warehouse commodities and their reorder from suppliers, and distribution to recipients
    - » Converting all mainframe data to Oracle tables
    - » Training users on the new software
    - » Providing help desk support
    - » Fixed price performance based contract

# Satisfied Customers

- Austin Spriggs & Associates, Architects & Engineers
  - Design of Automated building Video and Biometric security system
    - » Designed an integrated computer network controlled video and biometric sensor security system for a new building
    - » Completed detailed design drawings using AutoCad 2002
    - » Developed a 80 page design document which provides specifications on each component, the integration of the system and describes how the system will meet the security requirements of the client
    - » System design included over 80 cameras controlled by a video server and integrated to door and window sensors which point the camera in the direction of the sensor when it is tripped
    - » Designed a complete intercom system with panic buttons which focus all cameras in the area on the immediate area of the intercom based panic button
    - » Designed a vehicle identification system to photograph and log the entry times and dates of vehicles in and out of the building using smart card technology
    - » Designed a complete control console for all cameras wired to a security booth
    - » Designed hundreds of sensors for doors, windows, elevators and other access areas
    - » Designed Biometric fingerprint scanners to permit access to administrative areas

# Satisfied Customers

- District of Columbia Government, Department of Health (Prime Contractor)
  - **IT support for DC Women Infant and Children (WIC) State Agency and 26 sites of two large urban hospitals and three comprehensive multi-site health clinics.**
    - » Implementing and supporting private Wide Area Network (WAN) with CISCO routers, hubs and supporting wireless devices and desktop PC with “thin client” technology.
    - » Supporting client/server, auto-dialing, web-enabled, and web-based applications with the potential to add additional devices (hand-held, audio-visual, etc.).
    - » Provide health and medical-related subject-matter expertise to gain access to key medical and health professionals.
    - » Installed central-site hardware and software in the District’s Department of Health computer center.
    - » Provide application and program-related training.
    - » Provide help desk support.

# Satisfied Customers

- ▣ U.S. GSA & Internal Revenue Service Agency (Prime)
  - Design and Installation of Fire Protection Security system
    - » Design and replacement of a fully code compliant fire alarm system at the 340,000 Sq Ft. Atlanta Service Center in Chamblee, Georgia.
    - » Completed detailed design drawings using AutoCad 2002
    - » Provided commissioning, training, on-site testing, and operations and maintenance.
    - » Met design criteria and guidance established by
      - PBS-P100, Facilities Standards for the Public Building Service, Revised March 2005, Public Building Service CAD Standards, dated March 2005
      - NFPA current code requirements
      - International Building Code 2006
      - International Fire Code 2003
    - » System provides monitoring of water flow & tamper devices at each floor or area protected by sprinkler systems, smoke detectors and duct detectors re programmed to shutdown the affected air-handling units, audible notification appliances and strobes throughout office areas, general building areas and corridors, alarm verification capability for all smoke detectors, air handler shutdown, door release features, HVAC system initiation, electromagnetic door hold open.

# Services

## Application Development

- Proficiency in Client-Server and Web Based Systems
- Expertise in all phases of the system development life cycle
- Expertise in Visual Basic.Net, Microsoft Access, SQL, C++ and Object-Oriented Programming and Design (OOP and OOD)
- Systems and programming expertise in GUI Interface, Windows and relational databases
- Proficiency in Rapid Application Development (JAD), Rapid Application Development (RAD) and Prototype development
- Conversion of legacy systems
- Maintenance of new and existing systems

# Services

## Relational Database Technologies

- o Skilled in the most current Database Technologies, including:
  - » Database Design
  - » Database Tuning
  - » Database Migration
  - » Database Storage and Management
  - » Database and RDBMS Server Outsourcing
  - » Database Administration, Data Analysis and Data Conversion
  - » Proficiency in scalable RDBMS products - DB2, ORACLE, Sybase, Informix, Access, SQL Server, and others

# Services

## Information Engineering

- Business process Analysis & Optimization
- Information Security
- Conceptual Design
- Business System Design
- Technical Design and Specifications
- System Construction
- IV&V, Quality Assurance and System Testing
- Prototype Design and Implementation
- Rapid Application Development (RAD)
- Joint Application Development (JAD)

# Services

## ▣ Systems Integration

- Requirements Analysis and Definition
- Current Systems Evaluation
- System Definition and Design
- Project Planning, Scheduling and Control
- Software Integration
- Data and System Conversion
- Documentation and Training
- Document management systems
- Financial systems integration
- Imaging systems

# Services

## Network Integration Services

- Pre-integration hardware technical analysis
- Data and Video Network Design
- Local and Wide Area Networks, Storage Area Networks
- Multi-vendor network integration & wireless systems
- ATM, HTMS/HTTP, TCP/IP, IPX, SNA, UNIX, NetBIOS, Ethernet, ISDN, SMDS, ODBC, DDS, Frame Relay, Token Ring, Netware, XDSL, DDS.
- Installation
  - » Switches, Routers
  - » Multiplexers

# Services

## Health and Medical System Integration

- Health and medical Hardware and software product evaluation and recommendations.
- Specification of business-process integration and migration from “as is” to “to be” health agency, physician and clinic operations.
- Design and implementation of WANs, LANs, and clinic sites.
- Subject-matter expertise in Medicaid systems, health and medical support, including *on-demand* expert physicians.
- Specification and migration plans including facilities upgrade, security systems, fire protection, data-capture devices, security protocols, system integration, staff selection and training.

# Services

## IT integrated Security Systems Design

- Computer room design (power, data, voice, climate control)
- Security (physical access, biometric and key systems)
- Fire Alarm Systems
- Copper and Fiber based Network Design
- Physical plant installation
- Integrated camera, intercom and sensor based systems
- Building control networks:
  - » Network integrated access sensors for doors and windows
  - » Integrated and sensor controlled cameras
  - » Intercom system integrated to camera controlled network

# Services

## ■ Fire Protection Engineering

- Electronic Security fire/life Safety Systems
  - » Design and Installation
- Smoke control systems
- Constructability Reviews
- Life Cycle Costing/Value Engineering
- Redesigning and installing fire protection systems
- Life Safety Systems:
  - » Voice evacuation
  - » Fireman's phone communication systems
  - » Fire alarm systems

# Services

## Security Systems Engineering

- Design and Installation
  - » Command / Control Software Intelligence
  - » Design and Installation
  - » Access Control Systems
  - » Closed Circuit Television
  - » Burglar and Fire Alarm Systems
  - » Intercom Systems
  - » Telephone Access/Entry Systems
  - » Outside Perimeter Security
  - » Outside Parking Lot Control
  - » Sprinkler System Monitoring

# Government Contracting

## □ Contracting Vehicles for Government

- GSA Federal Supply Schedule # GS-35F-0738J
  - » SIN 132-51 - Information Technology (IT) Professional Services
- 8(a) Certified
- Maryland CATS State wide Contract
- Local Government Schedules for IT Services

# Payment, Bonding and Insurance

## □ Electronic Payment

- We accept:
  - » Mastercard, Visa, American Express
  - » Government Purchase Card
  - » Electronic Wire Transfer

## □ Performance and Payment Bonded

- Fully Bonded and Insured on all Projects
  - » Bonded up to \$5M
  - » Insured up to \$15M

# Certifications and Licenses

- ❑ U.S. Small Business Administration
  - 8(a) Certified, Certified SDB
- ❑ Certified MBE, SDB, and LDBE
  - Metropolitan Washington Airports Authority
  - National Minority Supplier Development Council (NMSDC)
  - Prince Georges County Maryland
  - Maryland Department of Transportation (MDOT)
  - Washington Metropolitan Area Transit Authority (WMATA)
  - District of Columbia Government
- ❑ Maryland Security Agency License (MDSAL) NO: 107-1422
- ❑ Department of Criminal Justice Service (DCJS) NO: 11-5342

# Business Partners

## □ Certified Business Partnerships

- Microsoft
- Citrix
- Nortel Networks
- Compaq
- Dell
- HP
- CISCO
- GE

# Corporate Contact

## General Information

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