

PROGRAMMING PLUS®

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PROGRAMMING PLUS® provides Independent Consulting and Professional Engineering services in the fields of Computer Software and Hardware. Specialties include computer consulting, software design and development, problem solving, portability and applications porting, performance enhancements, communications, networking, Internet connectivity, computer security and firewalls, integration, interoperability, operating system internals and cross-platform systems administration. Development occurs on numerous platforms in a variety of languages and databases. Product procurement consulting (specifications, configurations, evaluations, installations, upgrades and sales) is also provided.

Advantages of Using Programming Plus®

- Results that Work.
- Quality Implementation.
- Intelligent, Practical Solutions.
- Expert Assistance.
- Experienced Software Development.
- In-House Facilities, Ability to Work Independently.
- Provide On and Off Site Consulting.
- Work on Tasks of Any Duration.
- Rapid Results are Often Possible.

Services Provided

- Software and Systems Engineering, Architecture, Design, Development, Integration and Testing.
- Application Analysis, Programming & Implementation.
- Troubleshooting, Debugging, Diagnosis, Correction and Repair of Malfunctioning Systems/Source Code.
- Problem Solving and Solutions. Crash Recovery.
- Algorithm and Product Development. Expert Witness.
- Technical Support, Assistance, Advice and Training.
- Cross-Platform Porting of Applications & Source Code.
- Performance Enhancements and System Tuning.
- Systems Administration, Integration and Support.
- Hardware/Software Selection, Evaluation, Installation, Configuration, Migration, Patches, Upgrades.
- Networks, Electronic Mail, Remote Access, Internet Access, Internet Servers, Security and Firewalls.

Typical Applications

- Financial Systems. Fixed Income Security Analytics.
- Mortgage Backed Securities Pricing (CMO/MBS/OAS).
- Foreign Exchange Trading, Direct Dealing & Matching.
- Electronic Funds Transfer Systems.
- Banking System: ACH, NACHA, Credit Card Clearing.
- Secure Real-Time Transaction Processing.
- Remote Information Transfer, Delivery & Routing, Store & Forward Messaging Systems.
- Communications, Networks, Internet and Firewalls.
- Web Sites, Email, Online Ordering and E-commerce.
- Business Process Automation and Applications.
- Accounting, Billing and Invoicing Systems.
- Inventory Control, Product Rental and Order Entry.
- Data Acquisition, Import, Analysis, Scrubbing, Storage.

*** YOUR CUSTOM NEEDS WILL BE ACCOMMODATED ***

Operating Systems

UNIX: AIX, HP/UX, IRIX, SCO/OpenServer/Unixware, Solaris.
LINUX: CentOS, Debian, Fedora, Knoppix, Mandrake, Mandriva, Novell, RedHat, SuSE, UnitedLinux.
BSD: BSD/OS, FreeBSD, NetBSD, OpenBSD.
VMS: OpenVMS, VAX/VMS, VAXclusters, VMSclusters.
WIN/DOS: Windows Server/Workstation/Desktop. DOS, FreeDOS.

Programming Languages

C, C++, Pascal, FORTRAN, RATFOR, BASIC, PL/1, PL/C, Perl, PHP, Prolog, Yacc/Lex, 4GL, SQL, ESQL, CGI, HTML, CSS.

Assembly Languages

80x86/8088, V20, 8085/8080, Z80, 6809/6800, 680x0, PDP-11.

Database Engines/Languages (selected)

Informix, MySQL, Oracle, RDB, SQL Server, Sybase, Custom.

Command Interpreters/Scripting Languages

UNIX Shells (sh, ksh, csh, bash), DEC DCL, DOS/Win Scripting.

Hardware Environments (selected architecture history)

AT&T: 3B5, 3B2, 3B1, UNIX-PC. **ALTOS:** 68000.
DEC: VAX, VAXcluster, Alpha, PDP, LSI. **HP:** PA-RISC 9000.
IBM: RS/6000, AS/400, Mainframe. **NEXT.** **SGI:** Indy, Origin.
SUN: 3, 4, IPX, Sparc 2, 5, 10, 20, Ultra, Netra, Blade.
x86: 8088, 80x86, V20, K6, Pentium, Xeon, Athlon, Opteron.

Facilities Available

Cross-Platform Multi-User Development and Test Environments.
High Speed Dedicated Internet Access. Internet Servers.
Electronics Laboratory. Computer, Electrical/Electronics, Network Cabling and Telephony Test Equipment. Machine Shop/Tools.

Education and Certification

The Cooper Union, School of Engineering (New York, NY),
Master & Bachelor of Engineering in Electrical Engineering.
Licensed & Registered Professional Engineer, State of New York.

Professional Activities/Associations/Affiliations

ACM. Encompass/DECUS NY Metro LUG. IASA. ICCA, ICCA-NY.
IEEE, Computer Soc., Consultants Networks NY/LI. NAFE. NSPE, PEPP,
NYSSPE. NYCDotNetDev. NYCOSUG. NYeWin. NYLUG. NYSA.
PowerAIX. SunSmart. UniForum. Unigroup of NY. Usenix, SAGE. (fmr)
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