

QUALIFICATIONS SUMMARY

Lead Developer with 12+ years' programming experience. Talent and passion for inventing and building reliable tools and systems to streamline company processes. Innate ability to analyze and resolve problems with creative, economical solutions.

- ◆ 7 years' Visual Basic programming experience (certified).
 - ◆ 2 years' SQL programming experience, including network integration and database design & implementation.
 - ◆ Proven ability to develop fully automated, 'hands off' data systems.
 - ◆ Track record of effectiveness with CEOs, VPs, line-level workers, contractors, and customers.
 - ◆ Industry experience in banking, accounting, transportation, and general business; strong background in HVAC.
 - ◆ Excellent organization, communication, and training skills (including CBT).
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TECHNICAL SKILLS AND CERTIFICATIONS

- Programming:** Visual Basic 3-6, ASP, VBScript, HTML, Active-X, OCX, DLL, COM/DCOM, OOP, ODBC, RPG-II. Legacy COBOL application integration to SQL/web server, server automation, stand-alone EXE builds.
- Database:** SQL Server 7 & 2K, SQL DBA, Access, MSDE, ODBC. Database design, architecture, and implementation.
- Networking:** TCP/IP, Telnet, SMTP, NNTP, FTP, firewalls, network architecture.
- Hardware:** Intel/AMD-based PC's and servers and all associated components (e.g. printers, scanners, monitors, hard drives). IBM System 3 & 34, NCR 315-100.
- Software:** Microsoft Office, Front Page, Crystal Reports, HTML, hex editors.
- Systems:** Windows 3.1/95/98/NT, NT Server 4 & 2000, DOS.
- Certifications:** **Visual Basic 6.0** – Brainbench (Scored in top 10% worldwide; top 2% in the RTP, NC area).
Master Electricians' License – Unlimited Class, Qualified Individual (highest status).
HVAC License – Statewide Master class -H1 - (Hot water), H2 - (A/C), H3 - (Hot air),
Refrigeration License – Statewide Master class, State Board of Refrigeration Contractors.
Security systems – S.B.I. clearance, North Carolina.
CFC License – Universal (types 2, 3, 4 & Automotive), Environmental Protection Agency.
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PROFESSIONAL EXPERIENCE

Lead Developer: Swifty Serve, Durham, NC (6-month contract extended to 15 months, despite layoffs) 01/01–04/02

Designed, coded, and implemented internal computer application software and multi-component network solutions at the headquarters of this Fortune 'Private 250' convenience store chain.

- ◆ Created VB application with full 'hands off' automation controlling daily delivery of 1 million gallons of gasoline. Directly interfaced legacy COBOL system and SQL Server 2K to fuel supplier via SMTP, FTP, and TELNET.
- ◆ Reduced inventory expenses \$5.8M by resolving inefficiencies in fuel purchasing and control processes.
- ◆ Devised automation tools to analyze 1.2M transactions per month and identify and escalate accounting inconsistencies. Reduced cash imbalance from \$750,000/month to \$75,000/month.
- ◆ Created and built web- and email-based tool sets and reporting sets integrated with legacy COBOL system to improve daily storewide compliance by 30%.
- ◆ Created intranet web site enabling 500 daily users in 10 states to access 800+ reports, charts, and graphs.
- ◆ Provided ongoing user support and training for recently implemented applications.

Technologies: Visual Basic, ASP, VBScript, SQL (7 & 2K), Windows NT 4.0 & 2K, IIS, PDI/RMS, ODBC, PCAnywhere, HTML, SMTP, FTP, TELNET, LAN/WAN, Crystal Reports, FrontPage, multi-protocol integration, network software architecture, web design and implementation.

Lead Developer: Strategic Resource Solutions (SRS), Software Technologies Division, Garner, NC **04/99–12/00**

Created, designed, and coded enterprise software products, and enhanced existing technology focusing on HVAC controls, building controls, and facility management. Personally asked by VP to come back after previous employment at SRS.

- ◆ Designed N-tier application to integrate unlimited multi-campus building control systems up to network level for executive review of aggregated data.
- ◆ Managed and delegated database, business objects, and user interface responsibilities to department members and worldwide contract programmers.

Technologies: Visual Basic 5 & 6, N-tier client/server design, COM/DCOM, Active-X, LAN/WAN, TCP/IP, SQL 7, DAO, ODBC, IE 5, NT 4.0, IIS.

Programmer: Applied Controls Technology, Morrisville, NC **05/98–03/99**

Programmed and commissioned building control systems for large 'Class A' industrial and commercial properties, using the Andover product line.

- ◆ Wrote programs in Visual Basic 5 to optimize the functionality of Engineering, Controls Programming, and Marketing departments.
- ◆ Created engineering tools and programming aids and tools resulting in a workload valued at over \$1M. Individual projects reached \$500,000.
- ◆ Regarded as 'go to' person for both customers and in-house technical support.

Lead DDC Controls Technician: SRS (formerly Diversified Control Systems), RTP, NC **11/96–05/98**

Developed and maintained control systems for large 'Class A' industrial and commercial properties by using multiple layers of distributed processors and LANs.

- ◆ Oversaw all aspects of control process from initial system check-out to final customer inspection and warranty commencement.
- ◆ Diagnosed and repaired Siebe systems and related components, carrying a work load of up to \$200,000.
- ◆ Handled testing, adjustment, and balance (TAB), as well as commissioning.

Programmer (Offsite Contract): Carrier, Syracuse, NY **06/96–11/96**

Invented and developed manual for *Psych+*, an HVAC design engineering and training program containing 17,000 lines of source code. The freeware version, 'PMTHERM', is used by over 15,000 people in 24 different countries.

Service Technician: Goodwin Refrigeration, Apex, NC **02/93–06/96**

Provided technical expertise for HVAC, commercial refrigeration, scientific specialty environmental, and test chambers.

Service Specialist: Johnson Controls Inc., Systems Service Division, Raleigh, NC **08/90–01/93**

Maintained account responsibility for all brands and sizes of HVAC equipment.

Service Technician: Modern Heating & Cooling, Poughkeepsie, NY **05/85–07/90**

As sole Service Technician, worked 60-hour weeks to satisfy a mix of commercial HVAC and refrigeration clients.

ACCOMPLISHMENTS AND AFFILIATIONS:

Author – <i>StockMon</i> , a database- and Internet-based program for tracking portfolios and researching stocks	08/00
Author – <i>MultiPrn</i> - Visio Technical add-in program distributed by Microsoft	06/98
Co-author – <i>Psych+</i> , Carrier's only 'selling' psychrometric program	07/97
Guest speaker – 'Latest Advances in Psychrometric Analysis', ASHRAE Annual Meeting, Boston, MA	06/97
Guest speaker – 'The Internet and the HVAC industry', ARI seminar, Chicago, IL	06/97
Guest speaker – 'Computer-aided Psychrometrics' RSES chapter meeting, Raleigh, NC	04/97
Lecturer/Presenter – PMTHERM to ASHRAE T.C. 1.1 (Psychrometrics) for peer review, Atlanta, GA	08/96
Inventor, Programmer – PMTHERM (VB program, over 15,000 users worldwide) reviewed in <i>The HVAC News</i> .	07/96
Founder, Moderator – HVAC Internet newsgroups (Alt.HVAC and Sci.Engr.Heat-Vent-AC)	05/95