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## Technical Skills & Proficiencies

I have spent all of my life working in and around the IT sphere; from the very first [personal computer](#) which my father & I built in 1975 (built literally, as in serial #40 from an [Ed Roberts](#) kit) to today, I have been an [IT generalist](#) who has developed a reputation as '[The Man](#)' to turn to for solutions. This list is not all encompassing; I am often called upon to either research and refine existing systems (many of which I was theretofore unfamiliar) or to develop new ones. I have been very fortunate to be involved in a diverse range of projects on a wide assortment of systems. As in all things, [questions](#) are encouraged.

## Hardware/Computer Platforms

### **Mainframe & Minicomputers**

Data General (Nova 3/12, AviiON), DEC (PDP, AXP, Rainbow & DECstation), HP 9000, IBM (AS/400, RS/6000, S/36, S/38, S/370), Sun Microsystems (68K, SPARC, x86)

### **Personal Workstations & Portables**

Apple Macintosh (68K, PPC, Intel), IBM PC compatible (x86, PPC, Intel, Atom)

### **PDA, Smartphone & Tablet devices**

Apple iOS, Blackberry, Google Android, HP web OS and PalmOS

## Operating Systems

Apple (A/UX, Darwin, Mac OS & Mac OS X, MkLinux)

CP/M (from inception through ZCPR)

DOS (Caldera, Concurrent, Microsoft, Novell, others)

IBM OS/2 (including OS/2 Warp 4 & OSFree)

Windows (3.1 to current, desktop & server with AD)

UNIX (including many BSD & Linux distributions)

## Networking

LAN & WAN (Wired, Wireless, Microwave, Satellite)

IP (IPv4 & IPv6), IPX & AppleTalk

IPsec, SSL/TLS-VPN, WPA

VLAN & VTP (VLAN Trunking Protocol)

Firewall, IDS, IPS & UTM

Content Filter & Internet Proxy

Routers (Cisco, HP, Juniper, Sonicwall, others)

Managed & Unmanaged Switches

Network Cabling & Cable Management

## Network Servers

Application servers

Authentication servers

Communications servers

DBMS servers

Email servers

Fax servers

File servers

FTP servers

News servers

Print servers

Proxy servers

Terminal servers

Web servers

## **Storage**

DAS (MFM, RLL, PATA, SCSI, SAS, SATA) & JBOD

RAID (Adaptec, Apple Xserve, Dell, Intel, LVM, more)

NAS (Drobo, FreeNAS, Linksys, Netgear, Synology, more)

SAN (ESCON, FCP & iSCSI; Dell, EMC, IBM, others)

## **Telephony & Mobile**

Mitel (3300 IP PBX)

Nortel (Meridian SL-1, Norstar)

ShoreTel (member: ShoreTel Power Users community)

Apple (iOS)

BlackBerry OS (4.5, 5.0, 6.0, 7.x)

Google Android (2.2 Froyo to current)

Palm OS (through Garnet OS 5.5)

Symbian

Windows Mobile

## **Virtualization & Emulation**

Citrix XenServer (XenServer, VDI-in-a-Box)

Parallels (Workstation, Desktop for Mac, Plesk, Virtuozzo)

VirtualBox (Oracle, Sun, Sun xVM)

Virtual PC (Connectix, Microsoft)

VMWare (VMware Infrastructure 3.x and vSphere 4.x)

Wine, Cygwin, Ghostscript (and more)

## **Print & Fax Systems**

Office & Production MFP (Canon, Ricoh, Océ, more)

MPS implementation and administration.

Centralized Fax Warehousing

## **Applications**

Adobe Acrobat (Advanced Forms & Web Integration)

Accounting (Quicken & QuickBooks, The General Store, more)

DBMS (Access, FileMaker, MS-SQL, MySQL, Paradox, more)

Desktop Graphics (Adobe Creative Suite, FOSS equivalents)  
Desktop Publishing (PageMaker, QuarkXPress, more)  
Desktop Video (Apple FinalCut Pro, Avid Studio, more)  
Help Desk (Kayako, Track-It!, OTRS, more)  
Master Data Management (Informatica, Riversand)  
Office Productivity (Microsoft Office, WordPerfect, FOSS)  
Proprietary (Banking, HR, Insurance, and other industries)  
Utility (A variety of audio, encryption and other applications)

## Safety & Security

Premise Alarm systems  
Enhanced Call Verification protocols  
Access Control & Security systems  
Video Surveillance systems  
On-line, Near-line, Off-line & Off-site backup  
Disk-based Backup systems  
BCP/DR Planning & Risk Management

## Programming Languages

**Note:** Just a few of the languages used producing commercial works.

Assembly language (68000, 8086, x86, Z80), BASIC (QuickBasic, Real Basic, Turbo Basic, Visual Basic), C (ANSI C, C++, C#, Objective C, Turbo C), Clarion, COBOL, ColdFusion (plus ActionScript), CSS (CSS1, CSS2 & CSS3), FileMaker Pro (FileMaker 4 to FileMaker Pro Server 9), FORTRAN (IV, 66, 77, 90), FoxPro (and Visual FoxPro), Java, JavaScript, MS-Access (Application development with Access & VBA), Pascal (also: Modula-2, Modula-3), PDF, Perl, PHP, Prolog, Python, RPG (RPG II, RPG III, RPG/400, RPG IV), SGML (and derivatives HTML, XML), SQL (MS-SQL, MySQL, PL/SQL, PostgreSQL)