

# ERNEST MACDOUGAL CAMPBELL III

*Web Developer • Programmer • Network Administrator • MCSE • MCP+I*

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<http://dougal.gunters.org/>

## Work Experience

### 7/2004 – Present Independent Developer, XLT Software, Roswell, GA

Managed Linux server functions and developed server-side web applications. Created web-based user management tools to integrate with an existing application. Coded a PHP template class for use in user management tools. Created a PHP “single sign-on” class in order to consolidate login functions for disparate web applications such as the Mantis BugTracker, user community weblog and forums, and administrative tools.

### 3/2000 – 7/2004 Web Site Developer, AAA Cooper Transportation, Dothan, AL

Developed and maintained web content and applications, including shipment tracking/tracing, freight bill details, online pickup requests, and similar B2C and B2B functions. Created web interfaces into various SQL databases. Used tools such as Visual C, PerlScript, JavaScript, JSP, ASP, IIS, FrontPage, Eclipse, WebSphere, and PhotoShop. Integrated data from mainframe and AS/400 systems into a Windows NT based web server. Interfaced to image system on IBM iSeries (AS/400). Used film and digital photography, Adobe Photoshop, and other tools to create and modify graphics for web and print use.

### 7/1999 – 3/2000 Programmer, Bifulco Infosystems Corporation, Huntsville, AL

Wrote programs in Visual FoxPro. Projects included: inventory management, delivery scheduling, and EDI communications with Medicare computers for a medical supply company; report generation for a solid waste disposal facility scale house; and setup of an internal Unix mail server for BIC customer use.

### 8/1995 – 7/1999 Systems Manager, Multitronics Incorporated, Huntsville, AL

Managed ADViCOM®, the Internet Services Division of Multitronics. Performed hardware and software upgrades for UNIX systems. Fielded customer queries and resolved technical issues. Wrote utilities in various scripting languages, including Perl, bash, Expect. Created and maintained customer web pages using HTML, CGI, PHP, MySQL, and JavaScript. Installed, configured, and managed network services such as SMTP, FTP, HTTP, NNTP, BIND (DNS), RADIUS, SNMP, etc. Managed and configured a variety of servers and routers, including Linux, FreeBSD, Cisco, Livingston, U.S. Robotics Total Control, Ascend, Xyplex, Netblazer, Adtran, etc.

Managed multiple systems for manufacturing and warehousing operations. Administered Win NT network, barcode labeling and scanning systems, and phone system. Provided reports to Multitronics customers via direct dialup and the World Wide Web. Designed and implemented client/server software in FoxPro and C for real-time inventory management using wireless barcode scanners. Managed the migration from a Novell Netware based network to Windows NT.

### 2/1993 - 8/1995 Systems Coordinator, Multitronics Incorporated, Huntsville, AL

Administered Novell network used for manufacturing and warehousing operations. Assisted in the development of a custom inventory control system written in-house with Microsoft FoxPro.

## Skill Set

### Web Technologies

- Apache
- IIS
- WebSphere
- Tomcat
- XHTML
- CSS
- XML-RPC
- SOAP
- CGI
- ASP
- XML/RDF
- Photoshop
- Photography

### Programming

- Perl
- PHP
- JavaScript
- Java
- JSP
- C
- Visual FoxPro
- Pascal
- 8086 & 6809 Assembly

### Operating Systems

- Windows NT/2K/XP
- Linux
- FreeBSD
- Microware OS-9
- VMS

### Databases

- FoxPro
- MySQL
- PostgreSQL
- Access
- DB2

### Networking

- Sendmail/SMTP
- INN/NNTP
- FTP/TFTP
- HTTP
- MS Exchange
- Procmail
- RADIUS
- TCP/IP
- Cisco routers
- U.S. Robotics Total Control System
- T1/ISDN

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## Outside Experience

I have had several outside professional and personal projects of note:

- Active developer for WordPress, a weblogging software project based on PHP and MySQL (<http://wordpress.org/>). As a member of the WordPress development team, I have a strong commitment to web standards such as XHTML and CSS.
- Created Ping-O-Matic (<http://pingomatic.com/>), a web-based utility for sending 'pings' to multiple weblog services using XML-RPC and REST interfaces.
- Assistant editor for NNTP newsgroup services chapter in Paul Robichaux's book Managing Microsoft Exchange Server.
- Contracted with Big Huge Games to write source code management utilities in Perl.
- Created JabFoaf Utilities (<http://dougal.gunters.org/jabfoaf/>) which convert Jabber rosters into FOAF RDF format.
- Design commercial web sites under the name Mental Collective (<http://mentalcollective.com/>).
- Created The War on Spam web site (<http://spam.gunters.org/>) dedicated to information about how to deal with junk email and related problems.
- I have uploaded over 50 photos to iStockphoto.com, and my pictures have gotten over 2000 downloads.

## Education and Certifications

2000

### **Microsoft Certified Systems Engineer**

Windows NT 4.0 – December, 2000.

1996

### **Alabama Industrial Development Training, Huntsville, AL**

Principles of Programmable Logic Controllers (PLCs), a sixteen-hour workshop on PLC programming, building on the skills learned in the Relay Based Motor Controls class. The skills learned in this class were put into real-world use in the manufacturing operations at Multitronics.

Relay Based Motor Controls, a twelve-hour workshop focusing on AC circuits for relay-based motors.

Access for Windows, a twelve-hour seminar centering on the database management software, Microsoft Access.

1994

### **Novell Network Administration, New Horizons, Huntsville, AL**

Completed a one-week course in advanced Novell Network administration.

1988-1991

### **Auburn University, Auburn, AL**

Computer Science Major with coursework in C, Pascal, Algorithms, and 8086 Assembly Language.

1985-1987

### **Georgia Institute of Technology, Atlanta, GA**

Electrical Engineering Major with coursework in Fortran, Pascal, and digital hardware circuit concepts and design.