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### Professional Objective

I wish to work in a research environment, specializing in computer programming and computer resource administration, where diverse and novel problems require innovative software or procedural solutions.

### Education

Bachelor of Arts: Florida State University, Tallahassee, Florida. Major in Computer Science, minors in Music and Mathematics. Distinctions include the Dean's List, enrollment in the Honors program, and a Certificate of Computers in Music.

Completed coursework toward a Master's Degree in Computer Science with interests in Real Time Systems, Neural Networks, Artificial Intelligence, and Speech Recognition.

### Personal Description

In short, when it comes to computer-based issues, I am a problem-solver. I am adaptable, I love to learn, and I am extremely tenacious, all of which make me well-suited to becoming quickly proficient in technically challenging and changing environments. Having operated UNIX systems for over 20 years, I have become adept at their management, but experience has taught that there is always more to know. I am most productive when faced with a new challenge, especially if I get to learn something, or if the solution requires programming of some sort. I am a self-acknowledged computer geek/nerd/dweeb, but I hide it well by possessing a decent sense of humor and diverse interests in addition to being intelligent and personable.

### Language and Operating System Proficiencies

#### Programming

C/C++  
FORTRAN  
PostScript  
SQL (database)  
Scheme/Elisp  
Java  
Ada95  
Pascal  
80x86 Assembly

#### Scripting Languages

C-Shell/Bourne Shell  
Perl  
Make  
Python

#### OpSys, Windowing, Widgets

Linux/UNIX (SunOS/Solaris)  
X Windows  
Gnome/GTK  
Win9x/NT/2000/XP  
CDE/Motif

#### Meta Languages

Lex/flex  
YACC/Bison

#### Applications/Text Processing

T<sub>E</sub>X/LaT<sub>E</sub>X  
HTML/XHTML/XML  
lilypond  
PHP  
The GIMP/Photoshop  
Troff/Nroff  
Adobe Illustrator

### Professional Experience

**Meteorology Department**, Florida State University, Tallahassee, Florida

Position: System Administrator (*June 2001 — Present*)

- Design and code realtime multi-monitor meteorological data display wall (in process)
- Coordinate the support and networking of over 400 machines
- Respond to the computing needs of 250 faculty, staff, and students
- Plan and deploy hardware and software upgrades and replacements
- Monitor network and machine security
- Assembled departmental e-mail server, including anti-virus and anti-spam features, allowing for secure IMAP and SMTP transfers and web access
- Designed and implemented departmental website
- Manage software licensing and compliance
- Maintain real-time meteorological data ingest and distribution
- Teach FORTRAN and computer use to Meteorology undergraduate students

**Mesoscale Meteorology Group**, Florida State University, Tallahassee, Florida

Position: Assistant in Research, (*June 1989 — June 2001*)

Programming:

- Flowchart generation language for PostScript printers
- Algorithms to discern meteorological features for NEXRAD radars
- Programs for "gridding" NEXRAD radar data

- X window environment for the development of hurricane-related algorithms
- Database and statistics-gathering routines
- An algorithm to convert Group 3 fax images to efficient PostScript (incorporated into libtiff/fax2ps)
- Programs producing population density maps from census data, with tornado correlation
- A “pretty” printer/reformatter/indexer for FORTRAN language programs
- MIME-enhanced GUI e-mail reader
- A web-based amortization calculator
- Lots of  $\TeX$  macros

Writing, Presentations, and Demonstrations:

- Technical reports describing newly developed algorithms (products delivered to grantor)
- An article for the pre-prints of an international meteorological radar conference (co-author)
- Software demonstrations for National Hurricane Center and NEXRAD Technical Advisory Committee

System/Network Administration:

- Configure system services, including sendmail, network printers, network file system, X servers, etc.
- Maintain Web server and site design
- Install and maintain computer hardware and software; arrange for repairs when necessary
- Manage data backup, storage, and retrieval
- Monitor system security

**Up With People**, Tucson, Arizona

Position: Production Assistant — Music, (*July 1988 — April 1989*)

- Planned and executed rehearsals for band, soloists, and chorus of 120 college-aged students
- Critiqued and refined over 70 performances of a 2-hour musical revue in six countries
- Maintained synthesizer equipment and sequencer programming
- Taught seminars in vocal techniques, synthesis, and the MIDI (Musical Instrument Digital Interface) protocol

**Center for Music Research**, Florida State University, Tallahassee, Florida

Position: Computer Software Specialist, (*February 1982 — July 1988, excluding IBM terms below*)

Programming:

- Graphic system for motion analysis
- Keyed data storage/retrieval system using B\*-trees
- Music synthesis and a music language compiler
- Time management and programming aids
- Character set design and printing utilities
- Neural network simulation
- Inter-user communication facility (similar to news groups)

Teaching:

- Survey of Computers in Music: an introduction to programming in C
- Advanced C Programming for Musicians: algorithms

Writing:

- User’s manuals for programming utilities
- An article on terminal emulation for the C Users’ Group (now C/C++ Journal)

**IBM**, Boca Raton, Florida

Position: Computer Programmer (temporary), (*January 1984 — June 1984 and January 1985 — May 1985*)

Programming:

- Time management/leave time scheduler
- Systems Network Architecture (SNA) implementation for Series/1 under EDL
- Test programs for a new operating system

Other:

- Published an article on melody programming in assembly language for the IBM PC
- Presentation on the time management software for department managers
- Telephone support technician for PC customers

## Activities and Memberships

Community Involvement: Composer/accompanist for a community children’s chorus; Accompanist for high school musical productions; music director/actor/accompanist in community theater musical productions; substitute organist/choir director for area churches; member of Tallahassee Community Chorus; former accompanist for Tallahassee Civic Chorale; former volunteer at Leon County’s Adult Education Center.

Faith Presbyterian Church: Deacon; Member of Chancel Choir, Handbell Choir, and Adult Ensemble; substitute organist and choir director. Group-study leader. Accompanist for youth and children’s choirs, children’s choir director, and chaperone for several youth activities. Participant in inner-city mission trips to Washington, D.C. and Atlanta. Adult Sunday School co-leader. Served on Congregational Care committee, Commitment committee, Community Outreach committee, Habitat House committee, Music committee, and Organist Search committee.

Association for Computing Machinery (ACM)

Florida State University Chamber Choir

Institute of Electrical and Electronic Engineers (IEEE)

Montreat Worship & Music Conference Faculty 2005, 2006

ΥΠΕ — Computer Science Honor Society

Up With People International Alumni Association, Board of Governors