

MARK A. MITCKES
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OBJECTIVE

Position in computer science or similar technical area. Computer science related experience extends over many years with emphasis in QA testing, computer modeling, basic programming utilizing several languages, and graphics. Salary requirements very flexible.

EDUCATION

M. S. Chemical Engineering, University of Tennessee, Knoxville, TN
B. S. Chemical Engineering, University of Tennessee, Knoxville, TN
A. A. S. Computer Science Technology, Pellissippi State Technical
Community College, Knoxville, TN (graduated 2000, 4.0 GPA)

EMPLOYMENT HISTORY

Environmental Systems Corporation, Knoxville TN
Software QA Specialist

2004-2008

. Tested air quality related software modules associated with data logger functions. Extensive testing was performed on both UNIX and Windows-based (predominately) platforms. Preparation of test cases required considerable intuitive capabilities and attention to detail. Also designed test cases that involved use of MS Excel. Several diverse software packages, such as Compuware and TestComplete, were also utilized in the overall testing process. Wrote scripts to automate testing process using Python language. Also significantly utilized SQL Server 2005 and Source Safe applications in testing process.

University of TN., Imaging Robotics and Intelligent Systems Lab, Knoxville TN
IT Technologist II

2000-2004

. Primary work area was in two FAA/TSA funded, electronics - oriented contracts involving airport security. One project involved enhancement of X-ray luggage scans; the other was a hardware-oriented project to track with cameras any individual entering an exit lane in the wrong direction.
. Performed extensive coding of new applications using the advanced programming language package MATLAB. These applications (coded in C-type language) were used in image enhancement, analysis, and processing functions.
. Prepared or edited numerous highly technical documents using WORD.
. Prepared and maintained several project databases using MS Access.
. Created and maintained project web sites.

Med Images, Inc., Knoxville, TN
Intern

2000

. Assisted with Visual Basic coding, debugging, review and documentation for applications used in receiving, unpackaging, archiving, verifying, queuing, and further processing physician-generated medical records.
. Projects used DCOM and ActiveX Data Object ADODB to manipulate data in SQL Server and Access databases.

Foster Wheeler Environmental Corp., Oak Ridge, TN
Senior Air Quality Engineer

1988-1999

. Collaborated with Oak Ridge National Laboratory for air quality support in preparation of numerous NEPA required documents and environmental monitoring efforts.

. Completed or reviewed all air quality sections for EIS for Spallation Neutron Source project.

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- . Performed computer modeling and graphics under contract to the U. S. Army for Pershing II missile eliminations under the INF treaty.
- . Completed all air quality sections for EID, PSD permit and Site Certification Applications for DOE Clean Coal Technology Project in Tallahassee, Florida.
- . Generated all computer modeling for PSD review for a major Florida Power and Light generating facility.
- . Prepared portions of the Environmental Resource Document for the Marshall Space Flight Center under contract to NASA.
- . Performed all computer modeling for extensive PSD permit for Florida Power Corporation's proposed 3200 MW generation facility.
- . Last major project involved modeling and PSD permit preparation for a major expansion at a lime production facility and permitting assistance for relocation of the Army Research Lab under contract to the Corp. of Engineers.

**Radian Corporation, (formerly Lee Wan Associates), Oak Ridge, TN
Senior Environmental Engineer**

1988

- . Performed work in diverse environmental areas, generally associated with the Y-12 facility at Oak Ridge.
- . Wrote major sections for Environmental Assessment covering CAPCA closure activities.
- . Completed PSD permit application for a major steel mill reopening.

**TEC/Energex Associates, INC./IT Corp., Knoxville, TN
Senior Environmental Analyst**

1984-1988

- . Diverse work experience in environmental areas. Projects included a major work assignment to upgrade the waste water treatment facilities at a plant involved in treating copper cyanide waste.
- . Involved in a major solid waste (RCRA) project to remove and process lead-bearing soil at a foundry in Alabama.
- . Projects also involved review of part B RCRA applications and hi-vol air monitoring for a local industry.
- . Involved in major modeling effort for DOE's, FMPC at Fernald, Ohio, utilizing the PREPAR/AIRDOS/DARTAB set of computer codes.
- . Heavily involved with permitting activities for IT Corporation's four hazardous waste sites in California.

**Science Applications International Corp. (SAIC), Oak Ridge, TN
Chief Air Quality Engineer**

1980-1984

- . Assisted in preparation of handbooks and environmental assessments and impact analysis in the area of air quality.
- . Performed air quality computer modeling for environmental impact assessment associated with coal conversion under the Fuel Use Act.
- . Performed extensive air quality analysis of effects of hydrocarbon emissions and associated ozone levels for Phase III expansion of the Strategic Petroleum Reserve Project.
- . Participated in preparation of extensive computer-aided graphics (mapping) for use in Florida Regional EIS. The Florida study also included implementation of Long Range Transport modeling (RAPT model) to project acidic deposition levels throughout the state.
- . Performed review and evaluation of site characterization for basalt depository for ONWI.
- . Principal investigator for internal R & D study of LRT (acid deposition) models.

CLEARANCE: U. S. Department of Energy "Q" cleared, inactive status

CERTIFICATION: ACP (Associate Computing Professional)