

**ENGINEER: ELECTRICAL**

**ALBERT M. ROSE, P.E.**

Engineering Design and Testing Corp.  
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**EDUCATION:**

1981 Bachelor of Electrical Engineering  
Ohio State University

**EXPERIENCE:**

April 2007 **Engineering Design & Testing Corp.**  
to Present **Asheville, North Carolina**

District Engineering Manager and Consulting Engineer. Failure analysis involving electrical power transmission, distribution and control (including transformers, circuit breakers, switchgear and motors/generators). Analyses include design feasibility, reliability studies and root cause. Additional consultation in fire origin and cause, and scope of damage.

February 2004 **Fred Wilson and Associates**  
to March 2007 **Jacksonville, Florida**

Industrial Group Supervisor. Managed all industrial design projects including project assignments, task scheduling, design review, and approval and professional staff mentoring. Projects included upgrade of university electrical distribution system from 4160 Volts to 12,470 Volts; numerous design projects for overhead to underground distribution conversion at the Kennedy Space Center; overhead 4160 Volt to underground 26kV distribution conversion for a municipality; and Geographical Information System database development for the Cape Canaveral Air Force Station that integrated with analysis software to perform load flow, short circuit, protective device coordination and transient stability analysis on the electrical distribution system.

**August, 2011**

August 2002  
to February 2004

**Cadick Corporation  
Garland, Texas**

Director, Reliability Centered Maintenance Services. Developed the Reliability Centered Maintenance Services Division, including on-site maintenance testing, test data analysis, maintenance program development and on-line maintenance data trending services.

November 1996  
to August 2002

**The Rodell Group  
Rockledge, Florida**

Owner and President. Specialized in equipment and systems maintenance and reliability consultation. Performed Reliability Centered Maintenance studies for the Kennedy Space Center, Cape Canaveral Air Force Station, Antigua Air Force Station and Ascension Island Air Station. Performed maintenance optimization analyses for clients, including maintenance procedure document, maintenance interval specification and maintenance technique training.

October 1990  
to November 1996

**EG&G Florida  
Kennedy Space Center, Florida**

Lead Engineer. Instrumental in the design and implementation of the Reliability Centered Maintenance program. Designed the electrical portion of the program and coordinated the implementation and operation of the program for the Kennedy Space Center. Technologies included thermography, ferrography, vibration analysis and electrical testing.

October 1984  
to May 1990

**Duke Power Company  
Charlotte, North Carolina**

Transmission Engineer. Managed transmission department personnel and work assignments. Provided engineering, maintenance and operational technical support on the main turbine generators, medium voltage motors, switchgear, circuit breakers, protective relays and meters. Wrote and maintained all required maintenance procedures and predictive maintenance records, INPO/NRC requirements and action notices.

July 1981  
to October 1984

**Duke Power Company**  
**Charlotte, North Carolina**

Construction Engineer. Engineering support and installation, testing and start-up for high voltage distribution, transmission and other plant electrical systems. Field redesign of the electrical controls for the radioactive waste solidification system.

### **PROFESSIONAL ORGANIZATIONS:**

Institute of Electrical and Electronic Engineers (IEEE)  
National Fire Protection Association (NFPA)  
InterNational Electrical Testing Association (NETA)  
International Association of Arson Investigators (IAAI)  
National Association of Fire Investigators (NAFI)

### **REGISTRATIONS AND CERTIFICATIONS:**

Registered Professional Engineer in Kentucky (#27130)  
Registered Professional Engineer in Florida (#60949)  
Registered Professional Engineer in South Carolina (#25211)  
Registered Professional Engineer in North Carolina (#033025)  
Registered Professional Engineer in Virginia (#043511)  
Registered Professional Engineer in Georgia (#PE032059)  
Registered Professional Engineer in Tennessee (#00111542)  
Registered Professional Engineer in Louisiana (#111542)  
Registered Professional Engineer in Ohio (#72946)  
Registered Professional Engineer in West Virginia (#18136)  
National Council of Examiners for Engineering and Surveying (#25969)  
Certified Level 2 Thermographer (Infrared Imaging)  
Certified Fire and Explosion Investigator

### **PUBLICATIONS:**

“Electrical Predictive Maintenance at the Kennedy Space Center”, February 1995, *P/PM Technology Magazine*

“Dissolved Gas Analysis”, Fall 1995, *AVO Tester*

“Diagnosing Transformers”, March 2010, Volume 23 Number 1, *The Stress Point Magazine*

“Journal of Failure Analysis and Prevention”, Vol. 10, Issue 4, *New Issue Alert*