

ENGINEER: ELECTRICAL**JOHN A. WORSHAM, M.E., P.E.**

Engineering Design & Testing Corp.

Post Office Box 1378

Daphne, Alabama 36526

Telephone: (251) 210-6146

EDUCATION:

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| 2010 | M.E. Fire Protection Engineering, University of Maryland, College Park, Maryland |
| 1990 | B.S. Electrical Engineering, University of South Alabama, Mobile, Alabama |
| 1975-1976 | Graduate Study in Psychology, University of South Alabama, Mobile, Alabama |
| 1975 | B.S. Psychology, Spring Hill College, Mobile, Alabama |

EXPERIENCE: ENGINEERING PRACTICE

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| July 2001
to Present | Engineering Design & Testing Corp.
Birmingham, AL (2001-2014); Mobile, AL (2014 to Present)

Consulting Engineer. Specialized consulting in the area of electrical engineering for commercial, industrial and residential systems, including cause and origin of electrical and electronic system failures, electrical code compliance, analysis of costs to repair or replace electrical and electronic equipment and systems, evaluation and analysis of electrical construction disputes. Fire Code Compliance and investigations to determine the root cause of fires. |
| December 1996
to June 2001 | Smurfit-Stone Container Corp., Senior Electrical Project Engineer. Performed conceptual design, detailed design, construction engineering, and project management for commercial and industrial electrical and instrumentation projects. Responsibilities included acting as plant resource for National Electrical Code interpretation; chaired team to write mill electrical and instrumentation specifications; prepared estimates of project costs; performed design and installation of low and medium voltage (to 69 kV) power distribution projects; design and installation of electrical systems for hazardous locations; |

performed design and installation of process instrumentation;
supervised electrical and instrumentation contractors.

March 1990
to November 1996

Champion International Corp., Electrical Project and Maintenance Engineer. Provided conceptual design, detailed design, construction engineering and project management for industrial electrical and instrumentation projects. Conducted analysis to determine root cause of electrical and instrumentation equipment malfunctions. Responsibilities included preparing cost estimates for electrical and instrumentation projects; performed design and installation of low and medium voltage (to 13.8 kV) power distribution projects; performed design and installation of process instrumentation; supervised electrical and instrumentation contractors; programmable logic controller installation and programming; performed root cause analysis of industrial electrical system failures, performed electrical code compliance inspections of all new electrical installations.

August 1976
to May 1987

Single and Multi-unit Restaurant Management, various hospitality companies. Full profit and loss responsibility of from one to four restaurants.

PROFESSIONAL ORGANIZATIONS:

National Society of Professional Engineers
Institute of Electrical and Electronics Engineers
National Fire Protection Association
International Association of Arson Investigators
International Electrical Testing Association
National Association of Fire Investigators
Tau Beta Pi (Engineering Honor Society)
Eta Kappa Nu (Electrical Engineering Honor Society)

SERVICE: PROFESSIONAL

Principal Member National Fire Protection Association Technical Committee on
Electrical Systems Maintenance (NFPA 73)

REGISTRATIONS AND CERTIFICATIONS:

Registered Professional Engineer in Alabama (No. 24869)
Registered Professional Engineer in Arkansas (No. 16083)
Registered Professional Engineer in Florida (No. 48283)
Registered Professional Engineer in Georgia (No. PE027775)
Registered Professional Engineer in Illinois (No. 062.059363)
Registered Professional Engineer in Kentucky (No.27914)
Registered Professional Engineer in Louisiana (No. 32567)
Registered Professional Engineer in Michigan (No. 6201060690)
Registered Professional Engineer in Minnesota (No. 49201)
Registered Professional Engineer in Mississippi (No. 15451)
Registered Professional Engineer in North Carolina (No. 34139)
Registered Professional Engineer in South Carolina (No. 31047)
Registered Professional Engineer in Tennessee (No. 107811)
Registered Professional Engineer in Texas (No. 102813)
Registered Professional Engineer in West Virginia (No. 020907)
NCEES Certification (No. 20569)
NAFI Certified Fire and Explosion Investigator (No. 8804-3893)