

ENGINEER: ELECTRICAL

TONY CATALFOMO, MSEE, P.E.

EDT Engineers, P.C.
Post Office Box 481090
Charlotte, NC 28269
Telephone: (401) 487-0834
tcatalfomo@edtengineers.com

EDUCATION:

2007 M.S., Electrical Engineering
Worcester Polytechnic Institute, Worcester, Massachusetts
(Research in Power Quality and Power Electronic Simulation)

1987 B.S., Electrical Engineering
University of Hartford, West Hartford, Connecticut

EXPERIENCE:

January 2015
to Present **EDT Engineers, P.C.**
Charlotte, North Carolina

Consulting Engineer. Consulting in the area of electrical engineering for residential commercial, and industrial systems, including cause and origin analysis of electrical system failures, electrical code compliance review, technical investigation of incidents involving industrial electrical power distribution systems and industrial control systems, project management, scope of damage, and analysis of costs to repair or replace electrical equipment and systems. Provide consultation services in loss prevention and risk assessment.

February 2006
to January 2015 **Teknor Apex Co.**
Fountain Inn, South Carolina

Plant Manager. Managed all aspects of the manufacturing of custom PVC compounds, conductive vinyl compounds and consumer products operations, including all site regulatory issues. Specific responsibilities included production, training, inventory control, scheduling, maintenance, shipping, customer service, engineering and regulatory compliance required for the operation of the facility. Developed and implemented NFPA 70E Arc Flash training program and Hazard Study Analysis for Teknor Apex North American operations. Project Manager for the Operational Excellence initiative to install state of the art plastics compounding process.

January 2005
to January 2006

Teknor Apex Company
Pawtucket, Rhode Island

Director of Engineering/Electrical Group Leader. Directed engineering and design staff in support of all facilities worldwide. Organized electrical/controls group to support and develop guidelines for electrical installations throughout Teknor Apex. Project Manager for all capital projects throughout organization.

April 1999
to December 2005

Teknor Apex Company
Attleboro, Massachusetts

Plant Manager. Site manager for the Hebronville, MA facility of Teknor Apex. The site operated two business centers: Color Concentrates and Chemicals (Plasticizers) Divisions. Managed all aspects of the manufacturing operation including all site regulatory issues. Specific responsibilities included production, training, inventory control, scheduling, maintenance, shipping, customer service, and regulatory compliance required for the operation of the facility.

May 1998
to April 1999

Engineering Design & Testing Corp.
Columbia, South Carolina

Consulting Engineer. Consulting in the area of electrical engineering for residential commercial, and industrial systems, including cause and origin analysis of electrical system failures, electrical code compliance review, technical investigation of incidents involving industrial electrical power distribution systems and industrial control systems, project management, and analysis of costs to repair or replace electrical equipment and systems.

March 1993
to April 1999

Teknor Apex Company
Fountain Inn, South Carolina

Plant Engineer. Responsible for engineering projects (capital and expensed), facilities and operations maintenance of a PVC, Color Concentrates, and Garden Hose manufacturing facility. Implemented preventative and predictive maintenance program. Developed and implemented a detailed calibration program which was critical in obtaining ISO 9002 certification. Organized a comprehensive maintenance training program which resulted in over three years without a recordable or lost time accident.

February 1988
to March 1993

**Teknor Apex Company
Pawtucket, Rhode Island**

Electrical Project Engineer. Designed electrical instrumentation, controls, and power distribution systems for manufacturing facilities throughout the country. Developed contract specifications and bid packages for projects. Acted as an on-site electrical project manager for Teknor-Apex. Project scopes involved construction, modification, and maintenance. Industries served included plastics, rubber and chemical. Chemical facilities were classified as Class I, Division II hazardous locations. Control systems involved programming of programmable logic controllers with 600 + I/O points utilizing PID (Proportional-Integral-Derivative) process control loops.

CONTINUING EDUCATION:

“Substations and Transformers: Maintenance and Testing,” February 2018

“Transformer Damages: Unbalance Conditions and Ferroresonance,” February 2018

“Methods of Equipment Protection,” February 2018

“Engineering Analysis of Failure: Determination of Cause in a legal Environment,”
February 2017

“Back-up Power Sources: Varieties and Applications,” February 2017

“Power System Protection and Fault Analysis,” February 2016

Large Loss Forum – “Engineering Economics: Actual Cash Value Definitions and Calculations,” February 2016

“Risk Management for Engineers,” July 2015

Investigation of Gas and Electric Appliance Fires, April 2015

OSHA Confined Space Training, January 2015

“Characterization and Modelling of Industrial Production Facilities for the study of Post Fault Voltage and Current Characteristics, and Assessment of the Related Arc Flash Hazard”
Sponsor/Mentor of Doctoral Student, 2013

PRESENTATIONS:

“Understanding Programmable Logic Controller Language for Forensic Analysis - or Who in the World is George Boole and Why Should I Care?” February 2018

“HVAC Systems and Managing Power in Commercial Buildings,” February 2016

NFPA 70E Arc Flash Compliance, Teknor Apex Co., Jacksonville, TX, 2013

NFPA 70E Arc Flash Compliance, Teknor Apex Co., Pawtucket, RI, 2013

NFPA 70E Arc Flash Compliance, The Haywood Company., Brownsville, TN, 2013

IEEE, Engineering in the Workplace, Clemson University, 2013

PROFESSIONAL ORGANIZATIONS:

Institute of Electrical and Electronic Engineers (IEEE) – Piedmont Section Secretary
National Fire Protection Association (NFPA)
InetrNational Electrical Testing Association (NETA)

REGISTRATIONS and CERTIFICATIONS:

NCEES Record Number: 62206
Registered Professional Engineer in South Carolina (#18706)
Registered Professional Engineer in Kentucky (#30988)
Registered Professional Engineer in Tennessee (#00118343)
Registered Professional Engineer in Illinois (#062.067453)
Registered Professional Engineer in Pennsylvania (#PE083875)
Registered Professional Engineer in West Virginia (#21472)
Registered Professional Engineer in Maryland (#48123)
Registered Professional Engineer in Connecticut (#PEN.0031485)
Registered Professional Engineer in North Carolina (#024330)
Registered Professional Engineer in Michigan (#6201063551)
Registered Professional Engineer in New York (#096323-1)
Registered Professional Engineer in Ohio (#PE.81898)
Registered Professional Engineer in Alabama (# 36389-E)