



Unified
Investigations & Sciences, Inc.



Western Service Center

Richard A. Malone, P.E.

Electrical Engineer

Sacramento, California

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EDUCATION:

California State University

San Jose, California

Bachelor of Science

Electrical Engineering

California State University

Sacramento, California

Civil Engineering

Chapman College

Diamond Springs, CA

California Secondary Teaching Credential for Physical
Science and Mathematics

Napa Junior College

Napa, California

Undergraduate Studies

EMPLOYMENT:

Unified Investigations & Sciences, Inc.

Sacramento, CA

Professional Electrical Engineer

August 2009 to Present

RTM Consulting Electrical Engineers

Sacramento, CA

President / Owner

May 2001 to August 2009

EMPLOYMENT (CON'T):

Waldorf High School
Sacramento, CA
Teacher Physics / Mathematics
September 2005 to August 2009

Ken Rubitsky and Associates Consulting Electrical Engineers
Sacramento, CA
Project Manager
May 1996 to April 2001

Thermon West/Bylin Heating Systems
El Dorado Hills, CA
Project Manager
September 1989 to May 1996

United States Air Force
KC-135 Pilot
May 1980 to December 1986

Lockheed Martin Missiles and Space Company
Sunnyvale, CA
Fault Isolation Engineer
July 1979 to May 1980

MILITARY EXPERIENCE:

United States Air Force
KC-135 Pilot
Top Secret Clearance
Supervised flight activities, participated in global tanker task force assignments providing operational air refueling support for fighters, bombers, transports and reconnaissance aircraft, worldwide.
May 1980 to December 1986

SPECIALIZED TRAINING:

- Inspection, Testing & Maintenance of Fire Alarms, One Day NFPA Seminar, December 10, 2009
- Health Care Facilities – Requirements for minimizing hazards for electrical systems, medical gases, electrical equipment, gas equipment, and laboratories., One Day Seminar, December 7, 2009
- UIS Investigation School/Investigations, 2009, 40 hours

SPECIALIZED TRAINING (CON'T):

- Over current Protection II-Coordination, Lee Layton, Professional Engineer. Red Vector, 2007, 3 hours
- Over current Protection I-Short Circuit Calculations: Lee Layton, Professional Engineer, Red Vector, 2007, 3 hours
- Electrical Protection Grounding, Lee Layton, Professional Engineer, Red Vector, 2007, 2 hour
- Overview of Electric Power Systems, Lee Layton, Professional Engineer, Red Vector, 2007, 1 hour
- Economic Conductor Selection, Lee Layton, Professional Engineer, Red Vector, 2007, 1 hour
- Electric System Reliability Indices, Lee Layton, Professional Engineer, Red Vector, 2007, 1 hour
- Voltage Regulator Applications, Lee Layton, Professional Engineer, Red Vector, 2007, 1 hour
- Transformers III: Connections, Lee Layton, Professional Engineer, Red Vector, 2007, 2 hours
- Transformers II: Standards, Lee Layton, Professional Engineer, Red Vector, 2007, 2 hours
- Transformers I: Electrical Characteristics, Lee Layton, Professional Engineer, Red Vector, 2007, 1 hours
- Sizing Electric Utility Service Entrance Equipment, Lee Layton, Professional Engineer, Red Vector, 2007, 2 hours
- Capacitor Applications, Lee Layton, Professional Engineer, Red Vector, 2007, 2 hours
- Electrical Equipment: Specifying the 3-phase substation transformer, Lee Layton, Professional Engineer, Red Vector, 2007, 5 hours
- Medium voltage underground cables, Lee Layton, Professional Engineer, Red Vector, 2007, 5 hours
- Grounding for equipment performance, Power CET (Consulting Education and Training) Corporation, 2003, 6.0 hours
- Lightning hardening and advanced surge suppression, Power CET (Consulting Education and Training) Corporation, 2003, 6.0 hours
- Power, grounding, and environmental concerns for “IT” facilities, Power CET (Consulting Education and Training) Corporation, 2003, 6.0 hours

SPECIALIZED TRAINING (CON'T):

- Solving harmonics problems using power analyzers, Power CET (Consulting Education and Training) Corporation, 2003, 6.3 hours
- Fire stopping, information technology convergence, code updates, seismic support issues, grounding, BICSI conference 2003, 32 hours
- United States Air Force Undergraduate Pilot Training, 1980

EXPERIENCE:

Fault Isolation Engineer for Lockheed Missiles and Space Company; flying the KC-135 air refueling tanker for seven years as a pilot for the United States Air Force; serving as a control systems engineer for five years at Thermon Heating Systems; teaching math and physics courses; and over 16 years as a consulting electrical engineer.

PROFESSIONAL ORGANIZATIONS:

National Fire Protection Association (NFPA)
Institute of Electrical and Electronic Engineers (IEEE)

CERTIFICATIONS:

Professional Electrical Engineer licensed to practice electrical engineering in the States of:
California #E15161
Nevada #014803
Arizona #50839
Utah #7587328-2202

NCEES Record: National Council Record with the National Council of Examiners for Engineering and Surveying (NCEES). The record streamlines required time and paperwork for licensure in a specific state where not currently licensed.

Registered Communications Distribution Designer (RCDD) through December 2006: A certification given through BICSI (Building Industry Consulting Services International) to individuals who demonstrate expertise in the design, implementation, and integration of telecommunications and data communications transport systems and related infrastructure. Recognized industry-wide as indicating superior expertise in the design of voice and data cabling systems.

Professional Clear California Single Subject Teaching Credential in the categories of Mathematics and Physical Science