

Credentials

**Professional Engineer**  
California License # E8032

Education

**Bachelor of Science in Electrical Engineering**  
West Coast University, 1970

**Continuing Education Programs**

Executive Forum, Pacific Missile Test Center, 1982  
Systems Acquisition Management, Anacostia Naval Station, 1980  
Ocean Acoustics, Catholic University, 1975  
Navy Logistics Planning and Management, 1975  
Aircraft control systems, Telemetry, Computer data processing, North American Rockwell, 1972  
Digital Acceptance Checkout Equipment, North American Rockwell, 1965

Professional Associations

Association of Old Crows - Past Member  
The Undersea Group Range Commanders Council - Past Member

Seminars & Publications

An Electromagnetic Connector, NASA Technology Brief, 1973  
Capacitance measurement Technique, NASA Technology Brief, 1972

Relevant Information

Navy Unit Commendation Award, 1977  
Pacific Missile Test Center Technical Directors Award, 1980  
FCC Amateur Radio License, Advanced Class

Areas of Concentration

Electrical engineering  
 Mechanical engineering  
 Industrial engineering

Fire investigation  
 Product liability  
 Marine engineering

Specific Experience & Interest

Product design and development  
 Underwater construction  
 Transformers  
 Vibrations  
 Voltage regulation  
 Uninterruptible power supplies  
 Three phase power  
 Short circuits  
 Small appliances  
 Recreational vehicles  
 Power distribution

Electrical fires  
 Repair shop practices  
 Manufacturing facilities  
 Emergency power  
 EMF shielding  
 Controls  
 Capacitors  
 Bidding procedures  
 Avionics  
 Analytical testing  
 Alternators

Professional Experience**Institute for Products, Engineering & Construction****2001 to Present**

Forensic investigation and consulting to attorneys and insurance companies. Projects involve the disciplines of Electrical, Mechanical, Industrial and Marine Engineering. Issues addressed include Fire Investigation, Electrical Hazards and Product Design Defects.

**Consulting Engineer****1993 to Present**

Perform forensic investigation and reporting on electrical and mechanical issues.

**Department of Defense/U.S. Navy****1974 - 1993**

As Directorate manager in Naval Warfare Analysis Center, had overall responsibility for 300 person department involved in performance assessment of Naval systems, including engineering, fiscal, procurement and coordination activities. As Logistics Branch manager, managed logistics functions involving spare parts, documentation and training for Navy ranges. As project Engineer in Pacific Missile Test Center, performed development engineering of computerized electronic threat simulators, which mimic radar emissions of enemy aircraft. As Project Engineering Manager in Pacific Missile Test Center, had program management responsibility for development of airborne jamming and electronic countermeasures devices. As Associate Program manager in Naval Air Systems Command, overall responsibility for acquisition management of Navy weapons ranges. As Supervisory General Engineer in the Ocean Engineering and Construction Project Office, supervised design, specification, planning, acquisition, installation and testing of ocean acoustic tracking, underwater communications systems and underwater construction tools. Acted as Engineer in Charge of upgrade to St. Croix

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 Washington, DC 20005  
 Tel: 202-822-9660

850 S. Rancho Rd, #4287  
 Las Vegas, NV 89106  
 Tel: 702-222-2481

underwater weapons range.

### **Rockwell International Corporation**

**1962 - 1974**

As Senior Engineer in Marine Systems Division, designed and developed electromechanical systems for classified applications requiring knowledge of instrumentation sensors, automated control systems, electrical energy sources, propulsion systems, power conditioning and marine design techniques. As Member of Technical Staff in Space Division, performed electronic test systems engineering. Responsibilities included development of test plans and procedures for validation of Apollo command/service modules and test equipment. Performed failure modes and effects analysis on the B-1 bomber multiplex control system. Performed design engineering on P72-2 unmanned satellite including electrical power and instrumentation and checkout support. As Senior Design Engineer in Ocean Systems Operations, performed analysis and design of electrical power distribution, power sources, control systems and power conditioning devices for Beaver submarine. Designed power and controls systems for Rockwell Swimmer Sled. Generated test requirements and checkout procedures for installed systems. As Senior Test Engineer in Space Division, performed test engineering of Apollo test stations, coordinated requirements and procedures with spacecraft design groups, Performed systems troubleshooting and recommended modifications to equipment. Performed electrical power system engineering and flight control systems engineering for Apollo spacecraft testing.

### **Leach Corporation**

**1953 - 1962**

Project Engineer. Began as installation and test technician for generating and automatic standby equipment; received promotion to foreman of electrical assembly and test department. Transferred to engineering department as designer of iron core components, rotary and electronic systems; received promotion to project engineer with overall project responsibility for design, testing and acceptance of custom designed power supplies and power conditioning equipment.