



# J. B. Shepherd & Company, Inc.

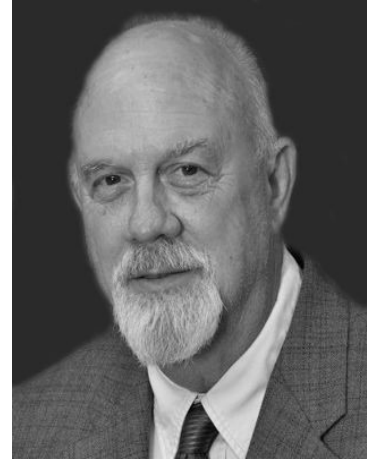
110 Bushnell Plaza  
Bushnell, FL 33513  
352-793-9300  
www.JBSCO.com

## **J. Bradley Shepherd, P.E.**

### *Curriculum Vitae*

E-mail: Brad@jbsco.com

Direct Dial: (352) 458-5301



### **PROFESSIONAL SERVICES:**

- ❖ Engineering and forensic evaluation of electrical power transmission and distribution planning, design, construction, operation and maintenance.
- ❖ Knowledge of National Electrical Safety Code (NESC) and National Electric Code (NEC).
- ❖ System fault protection and public safety.
- ❖ Electric utility accident investigation and prevention.
- ❖ Eminent domain (Power lines).
- ❖ Property damage, personal injury, lightning and other perils affecting electrical, electronic and electro-mechanical equipment.
- ❖ Forensic engineering and failure analysis.
- ❖ Consultation, arbitration and mediation services.
- ❖ Construction contracts, labor relations and collective bargaining agreements.
- ❖ Utility right-of-way utilization.
- ❖ Commercial and industrial electrical design evaluation.
- ❖ Overhead to underground cost differential analysis.
- ❖ Distribution construction standards.
- ❖ Lighting design and evaluation of illumination levels.
- ❖ Investigation of wildland (forest) fires of suspected electrical origin.

## **PROFESSIONAL QUALIFICATIONS:**

- ❖ Registered Professional Engineer in the State of Alabama #28221-E (retired)
- ❖ Registered Professional Engineer in the State of Florida #11183 (active)
- ❖ Registered Professional Engineer in the State of Texas #86600 (retired)
- ❖ Board Certified Diplomate in Forensic Engineering by NAFE Council of Engineering and Scientific Specialty Boards, (CESB) Member Board.
- ❖ Determined “Most Qualified” to serve as a Commissioner by the Florida Public Service Commission Nominating Council.
- ❖ Experienced in litigation support, forensic examination and/or expert witness in multiple completed legal matters and additional investigations that were not litigated.
- ❖ Investigated 10 wild land fires in 5 states; litigation pending.

## **EDUCATION:**

- ❖ University of Florida, School of Engineering, Bachelor of Electrical Engineering, 1965
- ❖ Rollins College, Crummer School of Business, Master of Business Administration, 1986
- ❖ Georgia Institute of Technology, Public Utility Executive Course
- ❖ University of Georgia, Utility Executive Management Course
- ❖ National Association of Regulatory Utility Commissioners (NARUC), Basic Regulatory Training
- ❖ Georgia Institute of Technology, Electric Utility Distribution Grounding, Transients and Relaying
- ❖ U.S. Naval Training Center, Electrician School, Marine Electrician (3 years)
- ❖ Legal Research Network, (SEAK) Expert Witness Seminar, Advanced Testifying Skills
- ❖ Global Atmospherics Lightning Seminar, Satellite Identification of Lightning Strikes
- ❖ National Academy of Forensic Engineers (NAFE), Rights and Responsibilities of the Forensic Engineering Expert Witness and related seminars and short courses.
- ❖ IEEE/NFPA Seminar on application of NFPA-70E to Electric Utilities

## **INDUSTRY AND COMMUNITY ACTIVITIES:**

- ❖ Edison Electric Institute: Past Chairman, Joint EEI/NEMA task force on Equipment; Member of the Transmission and Distribution Steering Committee
- ❖ Southeastern Electric Exchange: Past Chairman, Distribution, Fleet and Real Estate Section
- ❖ Institute of Electrical and Electronics Engineers (IEEE): Senior Life Member, Power Section; Special Member, Insulated Conductors Committee; Member IEEE Standards Association
- ❖ Member, Sumter County Engineering Review Committee
- ❖ National Society of Professional Engineers
- ❖ Florida Engineering Society: Served as advisor to the University of South Florida in developing the curriculum for Engineering Education.
- ❖ National Academy of Forensic Engineers (NAFE): Fellow Member, 2002
- ❖ Florida Fire Marshals and Inspector's Association
- ❖ National Fire Protection Association (NFPA)
- ❖ National Association of Fire Investigators
- ❖ International Society of Arboriculture
- ❖ Utility Arborist Association
- ❖ Captain, U.S. Coast Guard licensed Master 50 Tons Near Coastal, U.S. and Caribbean waters
- ❖ Director of Public Works and Past Board Member, Town of Gotha, Fl (unincorporated)
- ❖ Guest Lecturer, Electric Distribution Technology, Lake-Sumter State College

## **EMPLOYMENT HISTORY:**

- ❖ **2014 – Present:** J.B. Shepherd & Co., Inc.  
*Chairman,*
  - Electrical and Forensic Engineering firm offering full coverage of the forensic electrical consulting spectrum;
  - Providing expert opinions and strategic advice to attorneys and corporations in support of litigation involving technical issues;
  - Accident investigation, electrical safety, electrocution, injury and/or property damage.

❖ **2012 – 2014:** J.B. Shepherd & Co., Inc.

*President*

- Electrical and Forensic Engineering firm offering full coverage of the forensic electrical consulting spectrum;
- Providing expert opinions and strategic advice to attorneys and corporations in support of litigation involving technical issues;
- Accident investigation, electrical safety, electrocution, injury and/or property damage.

❖ **1994 – 2012:** J.B. Shepherd and Associates, Inc.

*President*

A full-service electrical consulting firm.

❖ **1997 - 1999:** Forensic Technologies International (aka FTI Consulting, Inc.),

*Regional manager; Forensic engineering services*

- Insurance consulting,
- Electrical damage claims, (FTI subsidiary LWG, Inc.)

❖ **1996 - 1997:** Relectronic-Remech, (subsidiary of Siemens Corporation);

- Insurance consulting,
- Electrical damage claims,
- Forensic investigations,
- Failure and restoration analysis.

❖ **1994 – 1995:** Active Electric Supply, Orlando, Fl;

*Account executive and electrical lighting design engineer*

❖ **1979 – 1994:** Florida Power Corporation:

*Manager, Engineering and Operations,*

- Responsible for the planning, design, construction, operation and maintenance of the distribution system and maintenance of transmission and substations in the Greater Orlando area and Central Florida;
- Administered Safety Training and Evaluation;
- Member corporate accident investigation and prevention committee;
- Member, Corporate design and construction standards committees;
- Administrator, IBEW collective bargaining agreement and annual underground and overhead construction contracts;
- Budget for and administer annual vegetation management contracts;
- Claims investigation and case preparation, public contact injury, property damage, easements and condemnation action;
- Administer storm plan and restoration procedure.

❖ **1965 - 1979:** Tampa Electric Company:

*Manager, System Distribution Engineering*

- Plan and design major construction projects;
- Oversee the preparation and publication of corporate policy, technical and standards manuals;
- Represent the corporation before the Florida Public Service Commission on underground cost analysis and matters pertaining to rates, procedures and policies;
- Expert testimony on personal injury and property damage claims;

- Conducted worldwide lightning protection studies and experiments;
  - Contract administration and supervision, line construction, trenching and tree trimming;
  - Develop and host area one-call digging notification center;
  - Manager, Construction Standards, responsible for the design and evaluation of overhead and underground distribution construction methods and the specification, purchase and evaluation of materials and equipment for the distribution system;
  - Specified, tested and evaluated aerial lift devices for overhead line work;
  - Established corporate tree trimming standards;
  - Department produced the Construction Standards and Material Specification manuals;
  - Established storm plans;
  - Superintendent, Western Service Area, including supervision of field engineering, line construction, stores, fleet, tool repair, metering and service personnel;
  - Division Engineer: supervision of field engineering, meter operations, stores, fleet, dispatching and service restoration;
  - Performed fault studies and determined over-current fuse and relay settings;
  - Corporate representative on statewide utility coordinating committee;
  - Assisted in preparation and publication of Florida Utility Accommodations Guide;
  - Engineer, Standards Department, overhead and underground distribution design and cost analysis. Worked with equipment manufacturers in the design of pad-mounted, underground served, electric utility devices.
- ❖ **1959 – 1965:** Full and part time employment in electrical engineering and contracting while attending University of Florida, School of Engineering. Employers: Miller Electric Company, Jacksonville, Fl; Carlos M. Hope Electric Company, Gainesville, Fl; Vitro Services, Eglin AFB.
- ❖ **1956 – 1959:** U.S. Navy; Electrician’s Mate II, serving aboard the aircraft carrier USS Franklin D. Roosevelt, CVA-42; also, sea duty on three submarines and a destroyer escort.
- ❖ **1955 – 1956:** Part time and full time employment as electrical assistant and as job cost estimator, Miller Electric Company, Jacksonville, Fl.

**PRESENTATIONS/PUBLICATIONS:**

- ❖ “Investigation of Wildland Fires of Suspected Electrical Origin”, Wildland Fire & Litigation Conference, Monterrey, CA, May, 2015
- ❖ “Forensic Engineering Investigation of Electrical power Line Contacts”, NAFE Journal, January, 2009
- ❖ Articles on underground distribution system design, T & D Magazine, April, 1979 and August, 1978