



## J. B. Shepherd & Company, Inc.

110 Bushnell Plaza  
Bushnell, FL 33513

352-793-9300  
www.JBSCO.com

**Steven E. Malich, P.E., C.E.M**  
*Curriculum Vitae* July 24, 2014  
33513

**J.B. Shepherd & Co., Inc.**  
110 Bushnell Plaza, Bushnell, FL

(352) 793-9300 Office, (352) 793-9301 Fax

E-mail: [Steve@ShepherdEngineers.com](mailto:Steve@ShepherdEngineers.com)

Web: [www.ShepherdEngineers.com](http://www.ShepherdEngineers.com)

### PROFESSIONAL SERVICES:

Engineering and evaluation of electrical power transmission and distribution planning, design, construction, operation and maintenance. National Electrical Safety Code (NEC), National Electrical

Code (NEC). System fault protection and public safety. Accident investigation and prevention. Eminent Domain. 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, Commercial and industrial electrical design evaluation; Overhead to underground cost differential analysis; Distribution construction standards; Lighting design and evaluation of illumination levels; Investigation of wild land (forest) fires of suspected electrical origin.

### PROFESSIONAL QUALIFICATIONS:

Registered Professional Engineer Florida #17544

Certified Energy Manager

Registered Electrical Contractors License (inactive)

Certified Solar Water Heating License (inactive).

Federal Communications Commission General Radiotelephone Operator License

### EDUCATION:

University of Florida, School of Engineering, Bachelor of Electrical Engineering (Power Option), 1972

University of South Florida, College of Engineering, Graduate Level Course - Industrial Power Distribution, Spring 2000.

OSHA 40 hour class on Work Place Safety - February 2006

Beckwith Protective Relaying Class - July 2006

Asbestos 40 hour certification class - October 2006 (16 hour refresher - June 2011)

Florida Solar Energy Center - Commercial Energy Building Code Compliance Course - July 2002  
National Fire Protection Association 70E Electrical Safety Requirements for Employee Workplaces -  
February 2002  
Illuminating Engineering Society - Fundamental Lighting - November 2001  
Florida Engineering Society - Professionalism, Ethics, and the Law - August 2001

## **INDUSTRY AND COMMUNITY ACTIVITIES:**

Edison Electric Institute - Electric Utility Metering & Services Committee (past member)  
Institute of Electrical & Electronic Engineers - Senior member  
Electrical Council of Florida - Member Pasco/Hernando Chapter

## **EMPLOYMENT HISTORY:**

**2013 - Present:** President, Patriot Engineering & Associates, Inc., A Service Disabled Veteran Owned Small Business, providing electrical design services to the federal government and electrical contractors.

**2011 - 2013:** Hall Engineering Group, Veterans Administration Program Manager, Electrical Reviews and Construction Period Services for Veterans Administration Projects.

**2003 - 2011:** Department of Veterans Affairs, Construction Project Manager and Contracting Officer's Technical Representative. Later served as facility Energy Manager responsible for initiating and overseeing construction projects that supported facility federal energy goals.

**2002 - 2003:** President, SEM Engineering Services, Inc., providing technical assistance and other services to electrical contractors.

**1972 - 2002:** Tampa Electric Company, served as Operations Manager at various district offices. Responsible for the design and operation of the distribution system and transmission system, including:

1. Design of new power facilities, overseeing construction, system protective relay settings for overhead and underground lines and substations, voltage control, and power factor control correction as well as ensuring adequate line clearance being maintained due to vegetation encroachment.
2. Responsible for the initial response to malfunctioning facilities such as storm damage, tree/vehicle problems, etc., as well as follow up repairs by line crews to restore the system to normal operation.
3. Reviewed and made recommendations to Risk Management concerning claims of personal injuries and damaged customer equipment filed against the company. Deposed on several occasions to provide expert testimony related to claims.
4. Responsible for supervising union employees (IBEW). Presided over formal

grievances filed by bargaining unit employees, and deposed and participated in arbitration cases.

5. Transmission line design engineer and distribution line design engineer.
6. Participated in service restoration efforts due to damage by Hurricane Andrew in Miami August 1993 supervising transmission & distribution line crews.

### **MISCELLANEOUS:**

Licensed by the Federal Communications Commission as an amateur radio operator (extra class)  
Have conducted numerous presentations at Electrical Council Meetings, such as Arc Fault Analysis  
& NFPA 70E & OSHA 1910, Grounding, and 2011 NEC Code Changes  
Presently serving on the Board of Directors for the Sea Grape Inn Condominium Association since  
1983 (Past President)