

CHARLES WAYNE FRAZELL, PE, CEM

1701 Crooked Lane - Fort Worth, Texas 76112 - (817) 446-4394 - frazell1@airmail.net

Electrical Engineer with High Voltage, HVAC & Marketing Experience

SUMMARY

Self-motivated, professional engineer with experience in high voltage electric design, customer relations, and energy conservation. Resourceful team player with strong interpersonal, analytical and problem-solving skills. Proven ability to complete projects on schedule and within budget.

SKILLS:

- Technical sales support
- Analytical approach to work
- Construction project management
- Team and customer oriented

WORK HISTORY:	September 1980 - September 2002	TXU
	August 2002 – June 2003	Self Employed
	June 2003 – December 2004	Texas Air Systems
	January 2005 – Present	Pritchard & Abbott Inc.

PROFESSIONAL EXPERIENCE:

- Designed and managed construction of multiple electrical transmission facilities including material deliveries, contractors, inspectors, and solving problems with design and land owners for projects exceeding \$5 million.
- Provided sales support by conducting energy use evaluations for more than thirty different types of commercial and industrial facilities. More than \$500,000 in possible annual energy savings found at one site evaluated for performance contracting projects.
- Generated a conceptual design and specifications used in a writing RFPs for design and construction of electrical substations and generator installations.
- Analyzed manufacturing and business processes for industrial customers and provided solutions that led to improved efficiency and reduced production costs.
- Co-authored MEASUREMENT OF ENERGY AND DEMAND SAVINGS, a new definitive work in energy conservation measurement.
- Authored a paper for Lennox International showing the DOE proposed efficiency ruling for 5-20 ton air-conditioning units had an economic factor that was more than 10% too high.
- Simulated energy use of commercial buildings prior to construction to predict operating costs and make recommendations prior to selecting HVAC technologies and control schemes.
- Created tools and trained both employees and customers to calculate energy rates, size HVAC systems, and evaluate energy saving and load shifting technologies.
- Performed and negotiated appraised values of utilities and other companies to determine property taxes.

EDUCATION: B. S. in Electrical Engineering from Texas A&M University

AWARDS & OTHER ACTIVITIES: Edison Electric Institute, Marketing Achievement Award

Received two TXU, Marketing Appreciation Awards based on customer satisfaction

Member of ASHRAE Electrical and Thermal Energy Storage technical committees

Amateur Radio operator and co-author of an article on a mobile HF antenna design

CERTIFICATIONS & PROFESSIONAL AFFILIATIONS: Registered Professional Engineer in Texas, Certified Energy Manager

Member of IEEE, AEE, and ASHRAE

COMPUTER SKILLS: MS Word, Excel, PowerPoint, Access, Project, Lotus 1-2-3, Lotus Notes, WordPerfect, ESPRE, micro-AXCESS, System Analyzer, Windows 95, 98, 2000, XP, DOS, Internet