

ROBERT E. FUHR; P.E., P.Eng

Senior Electrical Engineer – PowerStudies, Inc

Phone: 253-656-4880 Ext: 102 Email: fuhr@powerstudies.com

AREAS OF EXPERTISE

- Designs control systems for circuit breakers, metering circuits, transformers, protective relays, gas turbines and generators
- Performs short circuit, protective device coordination, arc flash, harmonic, load flow & other power system studies for industrial, commercial, and governmental clients
- Proficient in the use of SKM PowerTools and ETAP software
- Co-designed 115kV Substation and 13.8kV Distribution system for Boeing – Renton Facilities
- Investigates power quality problems and installs monitoring equipment
- Investigates problems and repairs power delivery equipment and control circuits (analog and digital)
- Evaluates test results and writes both summaries and large reports
- Appraises customers' distribution systems and prepares quotes
- Teaches customer electrical safety, harmonics, protective device coordination, arc flash hazard assessments, power factor correction, and equipment operation seminars and workshops

EDUCATION & PROFESSIONAL CREDENTIALS

- B.S. Electrical Engineering – University of Wisconsin, Madison, WI
- Professional Engineer Licenses – Alaska, Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Iowa, Nevada, New Mexico, New York, New Jersey, Maryland, Oregon, Pennsylvania, Virginia, Washington, and British Columbia
- State of Washington Approved Electrical Continuing Education Course Instructor – 2005 to Present
- IEEE – Protective Relaying Principles & Applications – 1988
- IEEE 1584 Committee Member 2010- Present
- General Electric Co. – Industrial Power Systems Coordination – 1985
- SEL – Directional and Reclosing Relays - 2006
- State Certified LV & HV Electrical Instructor and e-Hazard Certified Instructor

LEADERSHIP

- Owned and operated consulting firm specializing in power system studies
- Officer and Chairman for Seattle – IEEE Industrial Applications Society 1991-1992
- Supervised service shop craftsmen and electricians in installation, maintenance, and repair jobs
- Teaches seminars on Arc Flash Energy Calculations and Ways to Reduce Arc Flash Energy

EMPLOYMENT HISTORY

- 2022 – Present: Senior Electrical Engineer – PowerStudies, Inc., Maple Valley, WA
- 1986 – 2022: President – PowerStudies, Inc., Maple Valley, WA
- 1986 – 1989: Senior Facilities Engineer – University of Washington, Seattle, WA
- 1980 – 1986: Field Engineer – General Electric Co., Seattle, WA
- 1977 – 1980: Engineer's Assistant – Madison Gas & Electric Co., Madison, WI
- 1976 – 1977: Coop Student – Tennessee Valley Authority, Knoxville, TN