

Ronald G. Wroblewski, P.E.
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SUMMARY

- Senior engineering professional designs, analyzes, specifies and optimizes industrial and commercial fan system and other energy using systems, including compressed air, pump, blower, HVAC and lighting systems.
- Highly rated professional speaker applies adult education principles to develop effective workshops and has conducted dozens of well-received technical seminars and workshops.
- Other non-technical strengths include good written communication skills, ability to manage projects, and ability to develop and direct technical staff.

PROFESSIONAL EXPERIENCE

PRODUCTIVE ENERGY SOLUTIONS, LLC, Madison, Wisconsin 1998-present
Consulting and training business helps industrial plants and commercial facilities increase productivity and profitability by making more effective use of their compressed air, fan, pump and blower systems.

Founder, Trainer and Consultant

- Conducts training seminars utilizing original materials and existing packages including: Applying ASDs in Fan and Pump Systems, Optimizing Fan, Pump and Blower systems, Optimizing Compressed Air Systems, Motor Basics, Motor Systems Management, Motor Repair/Replace, and MotorMaster software training
- Identify projects and conduct feasibility studies for thermal and motor systems including air conditioning, compressed air, fan, pump and blower systems.

ENERGY CENTER OF WISCONSIN and WSDS, Madison, Wisconsin 1993-1998
Non-profit demand-side management collaboratives sponsored by Wisconsin Utilities

Motor and Motor System Optimization Project Manager

Coordinated statewide motor systems demonstration program to identify, analyze, and implement motor and thermal system optimization projects, including compressed air, fan, pump, and blower systems. Customer annual savings to date exceed \$1 million.

- Developed and conducted training events including a two-day performance optimization course for fans and pumps
- Developed marketing materials and tools such as the MotoRater, a hand held calculator wheel for analyzing motor energy costs and the Fan and Pump Optimization Checklists.

ENERGY CENTER OF WISCONSIN (continued)

- Coordinated development of case studies, including successful projects at Heileman, Louisiana Pacific, Ellsworth Creamery, and North Shore Water commission.
- Wrote requests for proposals, evaluated bids, and negotiated and supervised contracts.

XENERGY INC., Allendale, New Jersey

1991-1993

Demand-side management consulting firm. 1992 revenue \$35 million.

Mid-Atlantic Region Engineering Manager

Provided technical oversight, training and support, wrote proposals and reports, signed and sealed reports and drawings, managed projects, designed HVAC systems, and hired and trained junior and senior engineering staff.

- Managed pilot energy audit program for 10 of Omaha Public Power District's (OPPD) largest commercial and industrial (C&I) customers, identifying 35,000 Megawatt-hours of energy saving opportunities, and won contract worth \$1 million to audit their 900 largest customers.
- Audited over 90 large C&I facilities for Public Service Electric and Gas Co. (PSE&G) of New Jersey, totaling over 17 million square feet and 135 Megawatts demand, including the Statue of Liberty, Ocean Spray, Nabisco, William Paterson College, and PSE&G Corporate Headquarters.
- Conducted training seminars for in house and utility company field staff.

FREDERIC R. HARRIS, INC. New York, NY

1988-1991

Consulting engineering firm with 1300 employees worldwide specializing in large-scale, complex transportation, port, and harbor projects.

Senior HVAC Engineer

Supervised and trained junior engineers, designers, and drafters, headed design of all HVAC systems, selected equipment, and wrote specifications.

- Designed air conditioning system for 200,000 square foot terminal expansion at Las Americas International Airport, Santo Domingo, Dominican Republic.
- Designed and specified HVAC systems for industrial buildings, including dust collectors with heat recovery, reducing heating energy usage by 60%.

COSENTINI ASSOCIATES, New York, NY 1984-1988
Large architectural engineering (Mechanical/Electrical) design firm specializing in high rise buildings and large projects.

Project Engineer

Designed HVAC systems, wrote specifications and control sequences, designed piping and ductwork systems, supervised designers and drafters.

- Designed 1200 ton HVAC system for 125 W. 55th Street, a 22 story, 200,000 square foot office tower in New York.

Energy and Utility Rate Analyst

Conceptually designed HVAC systems and analyzed utility rates and first costs to determine the system which best met the owner's needs. Analyzed DX units, heat pumps, and central plants with electric chillers, gas absorption chillers, engine driven chillers, thermal energy storage (TES), and cogeneration.

PROFESSIONAL & EDUCATION

- Wisconsin Professional Engineer
- New York State Professional Engineer, License Number 064550-1
- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Member.
- Midwest Renewable Energy Association, Member
- M.S. Mechanical Engineering (M.E.), University of New Mexico, 1984
- B.S.M.E. University of Illinois at Urbana-Champaign, 1982
- Numerous technical, project management, and professional development short courses.

ARTICLES AND PUBLICATIONS

- An Analysis of Motor System Optimization Options, Industrial Energy Technology Conference, proceedings, April, 1997. With Mike Herro, Scott Schiebel, and Dave Waffenschmidt.
- An Analysis of Motor System Optimization Options, Energy Engineering Magazine, (reprinted from IETC conference proceedings) Vol. 95, No. 2. With Herro, Schiebel, and Waffenschmidt.
- Performance Optimization of a Fan System, Industrial Energy Technology Conference proceedings, April, 1997. With Fred Preis and Robert Smith
- Saving Energy with Efficient Motors and Systems, International Energy and Environmental Congress proceedings, September, 1996. With Angela Prestil
- Performance Optimization Service, ACEEE Proceedings, August 1994. With Edward Carroll and Barbara J. McKellar
- Energy Efficient Motors Can Drive Your Bottom Line, The Maintenance Journal, May 1994. With Susan Fox.