



**NAME** ROY E. SWAIN

**FIRM** Kohler & Lewis  
27 Mechanic Street  
Keene, NH 03431

**POSITION IN FIRM** Partner

**PROFESSION** Mechanical Engineer

**DATE OF BIRTH** September 23, 1954

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**FORMAL EDUCATION:**

1991 Virginia Polytechnic Institute, M.S., Systems Engineering

1976 Iowa State University, B.S.

**PROFESSIONAL CERTIFICATION:**

Registered Professional Engineer (New Hampshire,  
Massachusetts, Vermont)

**PROFESSIONAL EXPERIENCE:**

1999-Present Partner, Kohler & Lewis, Keene, NH  
1995-1998 Engineer, Kohler & Lewis, Keene, NH

Design of plumbing systems and automatic control systems.

Project management and general business administration.

1985 - 1989 New Product Manager and  
Senior Applications Engineer  
EnergyLine Corporation

Co-managed the development of the McQuay MicroTech line of microprocessor-based equipment controllers. Designed HVAC control systems, control and PC software, human-computer interfaces, and energy management systems.

1982 - 1985     Senior Project Engineer  
                         Carrier Corporation  
Advanced Development Engineering Department (1982-1985).  
Led and participated in projects to develop system concepts for  
commercial HVAC equipment.

1977 -1982     Mechanical Engineer  
                         Paoluccio Consulting Engineers  
Designed mechanical systems for architects, developers, and  
building owners. Applications included commercial and  
industrial HVAC, energy conservation, solar heating, and  
controls systems. Designed and conducted energy audits and  
engineering studies.

**SOCIETIES:**

Professional Mechanical Engineer  
Human Factors and Ergonomics Society  
American Society of Heating, Refrigerating, and  
                         Air-Conditioning Engineers  
Certified Plant Engineer, American Institute of Plant Engineers  
Certified Energy Manager, Association of Energy Engineers

**PATENTS:**

U.S. Patent No. 4,527,734, "Subzone Diverter Control" (1985).

**MAJOR PUBLICATIONS:**

The User-System Interface for Computerized Products - Design  
Principles & Research (1990). Human Factors in  
Practice, December 1990.

"Energy Conservation through Air Conditioning Controls"  
(1979) *Proceedings, American Institute of Plant  
Engineers 1979 International Conference.*