



DUANE L. LOM

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PROFESSIONAL EXPERIENCE

GEA Consulting

La Crescent, MN (1/09 – Present)

Consultant for design and development of Unitary HVAC Equipment and Energy Management.

The TRANE Company

La Crosse, WI (3/97-9/08)

Engineering Manager – Unitary Systems Group (11/04-9/08)

Engineering manager for a group of 8 development engineers. Primary group duties were the implementation of R410A refrigerant and efficiency upgrade to Commercial Rooftop Unitary equipment (20-75T) and design of options for the 90-150T Commercial Rooftop unit. Also provided design and test guidance for 0.5-25T WSHP and 3-55T Light Commercial Unitary equipment.

Project Manager/Senior Principal Engineer (3/97-10/04)

Project Management

Project manager for Waco and Macon Business Unit Products

Managed design teams of engineers and drafting technicians and implemented the requests from Marketing, Service and Manufacturing design team members for successful Water Source Heat Pump and Commercial Self-Contained products. Daily management of design and test resources and facilities to maintain project schedules and budgets.

Projects Completed: 0.5 - 1.5 Ton Console WSHP – October, 2000
 90 -110 Ton Commercial Self Contained – November, 2001
 12.5 - 25 Ton Large Vertical WSHP – May, 2002

Conducted performance reviews of engineering personnel assigned to projects.

Technical Design Projects

Evaluate the refrigeration system operation for optimum performance and cost using various components with computer based system performance models.

Projects Completed: DX Unit Ventilator Performance – February, 1998
 WSHP High Efficiency Study – May, 1998
 5/16 Finned Tube Coil Analysis – June, 1999

Northern States Power Company (now Xcel Energy)

Eau Claire, WI (12/88 – 2/97)

Manager, Marketing (1/93 – 2/97)

Department Management

Management responsibilities for retail marketing to residential, commercial, small industrial, and agricultural customers - electric and natural gas energy services and Demand Side Management. Fiscal responsibility for an \$11 million marketing budget and employee management of a 65 member marketing team. Responsibility for market and load research, program development, demand side management planning, field marketing, and technical support services.

Previous Marketing Positions

Administrator - Marketing Programs (6/92 - 1/93)

Administrator - Commercial & Industrial Marketing (9/89 - 5/92)

Engineer - Commercial & Industrial Marketing (12/88 - 8/89)

The TRANE Company

La Crosse, WI (6/74-12/88)

Senior Principal Engineer

Design and Development Activities

Designed and developed complete power circuits, control systems and electric heat packages for 20-120 ton Unitary HVAC equipment lines. Managed the workload and interface with approval agencies (UL and CSA) for listing of unitary products.

Project Management Activities

Managed small design teams of engineers and drafting technicians and implemented the requests from Marketing, Service and Manufacturing design team members.

RELATED ACTIVITIES

Licensed Professional Engineer E17821 – Wisconsin

PMP – Project Management Professional

Co-Inventor Patent #4,379,484 "Control for A Variable Air Volume Temperature Conditioning System - Outdoor Air Economizer"

DFSS Black Belt

Member of ASHRAE - President of LaCrosse Area Chapter, 1988-89

Member TC7.6, 1985-87; Chair of CRC2002, 2001-02

Member of Wisconsin Utilities Association - Marketing Executive Committee, 1993-97

Eau Claire United Way Campaign Account Executive, 1991-93

AARP Tax Aide Certified Tax Return Preparer, 2009

EDUCATION

University of Wisconsin - Madison, WI 1971-74

Bachelor of Science - Mechanical Engineering

University of Wisconsin - Menasha, WI 1969-71

Pre-engineering courses

Western Wisconsin Technical College – La Crosse, WI 1976-84
Associate Degree - Accounting