

1992 – 2013

Professional Engineer, Private Practice

1992-2013

R. P. Wichert, P. Eng.

Heating, ventilation, and air conditioning design; plumbing design; energy audits, Energy Star portfolio, rebate support and advocacy, HERS II Ratings, CTCAC Analysis, custom mechanical process design.

1998-2011

Engineering, Research, and Communications

US Fuel Cell Council Technical Director, Desert Research Institute fuel cell programs, due-diligence Investigations and consulting on fuel cell technologies

1976 – 1997

Sacramento Municipal Utility District

1992 – 1997

Advanced & Renewable Technology Program Supervisor

Advanced & Renewable Technology Development Program, 1993 budget of \$10.6 Million.

1990 – 1992

Generation Planning Supervisor

New generation system planning. Acquisition of ~1000 MW of new generation. Advanced Technologies Program, hydroelectric planning, cogeneration planning, natural gas forecasts.

1987 – 1990

Mechanical Systems Manager, Plant Performance Manager, Technical Support Superintendent

Power plant management, engineering, and technical support. ASNT TC-1A certification as a Level II Test Engineer.

1976 – 1987

Power Plant Engineer

Robert P. Wichert, P.Eng.

LEED AP BD&C, CEA, CEPE, HERS I / II, BPI Certified

Robert P Wichert Professional Engineering, Inc.

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Citrus Heights, California 95621

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robert@wichert.org

Summary of qualifications

Registered Professional Engineer in California (M021652) and Oregon (74040PE).

Over fifteen years of mechanical systems design experience: Heating Ventilation and Air Conditioning, water loop piping design, plumbing design, cogeneration system design

LEED Accredited Professional for Building Design and Construction

CalCERTS certified HERS Rater and HERS II Whole House Rater in California

CABEC Certified Energy Analyst, Certified Energy Plans Examiner and energy modeler

BPI Certified Building Analyst Professional

BPI Certified Multifamily Building Analyst Professional

Building Commissioning Agent

Former Master's Degree Candidate in Communication Studies with emphasis in Mass Communications, Inter-Cultural Communications and Issue Management

Preparation of bid documents; issuance and responses to RFPs, RFQs, and RFIs; contract preparation and negotiation; contract management

Former California Div. of Industrial Safety Certified Crane Inspector

Former ASNT TC-1A certified Level 2 Test Engineer with experience in system and component testing of mechanical, electrical, fluid, and vehicle systems

Education

University of California, San Diego

University of California, Berkeley

California State University, Sacramento, B.S.M.E.

California State University, Sacramento, Communication Studies

Professional experience

Mechanical Engineering, Piping, Plumbing, HVAC, and Process Design

Building Commissioning Agent

Energy Analyst – EnergyPro

Investment and Technology Due Diligence Investigations

Standards application analysis and recommendations for compliance

Electrical Maintenance Superintendent

Power Plant Performance Department Manager

Utility Generation Planning Supervisor

Advanced and Renewable Technology Superintendent

Instrumentation and Control Department Superintendent

United Nations Sub-Committee of Experts on the Transport of Dangerous Goods – Consultative NGO Status

International Civil Aviation Organization Dangerous Goods Panel – Participatory Observer Status

Member of NFPA Power Plant Fire Safety Committee and Hydrogen Safety Committee

Chairman of ASME PTC-50 on fuel cell power plant performance

Technical Support Engineering: failure analysis, scheduling, routine and special tests, energy planning, generation planning and operations, power plant licensing and regulation.

Engineering project management; multiple simultaneous projects – budgets up to \$21 million.

Personally responsible for the first Customer-Choice All-Renewable Electrical Energy Option in California – **SMUD Greenergy®**.

Ideation and development of fuel cells for uninterruptible power supply use in utility service.