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**GREGORY R. LIEBERT, P.E., CEM, GBE, CEA, CMI**  
**Principal Engineer**

*Qualifications*

**PROFESSIONAL EXPERIENCE**

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Principal with daily involvement in design projects whether as a lead investigator, construction administrator, project manager, project engineer, forensic engineer, building science and construction consultant, or general engineering consultant. Since 1980 I have been providing mechanical, process and controls design, applications engineering, forensic engineering, building construction and analysis, product design and development, engineering and technical management, business management, project and client management. Engineering and management experience gained while working in the Chemical Processing, Packaging, Building, and Consulting Engineering industries on machine design, machinery and process development, systems integration and general mechanical for building systems, building failure analysis, indoor air quality failures, and process engineering for food, pharmaceutical, microelectronics general chemical, industrial coatings among others.

Inventions: United States Patent Number 5,333,804 – August 2, 1994

Community Service: Planning Commission and Zone Hearing Board Member, Church Trustee Board Chairman

**EDUCATION**

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B.S., Mechanical Engineering, Villanova University, 1981

Numerous Professional Development Hours / Courses as required to maintain professional engineering licenses, and Expert Witness Credentials.007A

**REGISTRATIONS**

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Registered by the United States Council for International Engineering Practice (USCIEP) under the authority of the National Council of Examiners for Engineering and Surveying (NCEES), in the National Registry of Professional Engineers. Engineering experience and qualification records have been verified by NCEES.

## **LICENSES**

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Licensed Professional Engineer in the State of Vermont, Commonwealth of Pennsylvania, State of Maine, State of New Hampshire, Commonwealth of Massachusetts, State of New York, and State of New Jersey

## **CERTIFICATIONS**

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Certified Energy Manager (CEM) by the Association of Energy Engineers

Certified Green Building Engineer (GBE) by the Association of Energy Engineers

Certified Energy Auditor (CEA) by the Association of Energy Engineers

Micro Certified Mold Inspector (CMI) by the Micro Mold Inspection Consulting and Remediation Organization.

## **MEMBERSHIPS**

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American Society of Mechanical Engineers (ASME)

American Institute of Chemical Engineers (AIChE)

Association of Energy Engineers (AEE)

## **MILITARY**

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Served in the Army, both Active and Reserve. Retired Major with 22 years service in the Special Forces, Military Intelligence, Infantry and Combat Engineers.

## ***Recent Experience***

***2008-Present***

## **PRINCIPAL ENGINEER – LIEBERT ENGINEERING, INC.**

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Own and Manage design and consulting engineering firm that provides clients with mechanical, electrical, and process engineering and design along with project management and construction administration services. Additionally provide forensic engineering and building science consulting (professional evaluation and analysis of conditions related to building, equipment, materials or system failures) for owners, contractors, manufacturers, insurance companies and legal firms.

## **FORENSIC ENGINEERING & CONSULTING EXPERT EXPERIENCE**

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Forensic Engineer and Consulting Expert for many investigations involving system, equipment, component, controls, and operator failures, all which led to property damage, personal injury or both. Work for claims adjusters, insurance investigators, attorneys, and owners conducting

investigations, analyzing technical and physical data, collecting evidence, researching same or similar failures, and determining cause and origin, and then reporting findings and opinion.

## *Previous Experience*

**2003 – 2008**

### **FOUNDER & PRESIDENT AT VERMONT'S ALTERNATIVE ENERGY CORPORATION**

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Founder of Vermont's Alternative Energy Corporation with a mission to develop biodiesel infrastructure, technology, and equipment in Northern New England. Organized, staffed and conducted the very first seminar and workshop on biodiesel in Vermont. Funded the start-up of a not-for-profit 501 (c) 3 biofuels and renewable energy education and outreach corporation named Biorenewables Education Center, Inc. Project manager and co-author for a literature research project funded by a \$750K DOE / USDA federal grant under the Biomass Research & Development Initiative titled "Steps Toward a Biorefinery in Vermont". Developed the concept and preliminary design for a Central Agricultural Biorefinery Complex (CABC). The CABC is a regional biorefinery for the processing of agricultural waste, such as cow manure, production of thermal and electrical energy from biogas, processing liquid solids into bio-products and biodiesel production. Developed a Mobile Separation Unit (MSU) to travel between farms in the CABC region to pump manure slurry from pits for separation and concentration. Presented biofuel production and distribution topics at numerous conferences, workshops, and state sponsored technology seminars. Studied the feasibility of an on-site biodiesel production system with a combined heat & power plant for an electric utilities own and operate project. Developed a business and technical plan for a large East Coast energy wholesaler for B-100 importation, storage, blending, dispensing and distribution. Contributed to "The Vermont Biodiesel Project" – Building Demand in the Biofuels Sector funded by USDOE, and State Energy Program. Developed a concept for combined fuels storage and continuous blending and dispensing for fuel terminals, capable of dispensing any blend of fuel on a demand basis.

## *Previous Experience*

**1980 - 2003**

### **UAI GROUP, INC., READING, PA/WILLISTON, VT**

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UAI Group, Inc.'s, Williston, Vermont Office and Regional Manager. Responsible for the operations, profitability and project management for this remote multi-discipline engineering office. Technical Administrative and Project Management responsibility for Mechanical, Electrical, Instrumentation & Controls, Structural and Architectural disciplines for multi-discipline infrastructure and process engineering projects. Additionally, provided forensic engineering services by conducting investigation, inspections, and preparing expert reports. Responsible for hiring and managing local sub-consultants for disciplines not maintained in the office.

Previously, the Process and Mechanical Engineering Division Manager and Partner and member of the Board of Directors for UAI Group, Inc.'s Pennsylvania Corporate Headquarters. Responsible for day-to-day management and strategic goal obtainment for the Machine Design, Mechanical, and Process Engineering Departments. Primarily responsible for the technical quality of all Division submittals, project resource planning and estimating and budget control.

## **PREMIER MILL CORP., READING, PA; DIRECTOR OF ENGINEERING:**

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With the assistance of five managers, directed all technical aspects of the business for this custom chemical processing machinery manufacturer. Responsible for machine design, mechanical and electrical engineering, laboratory operations, design & development, technical services and inspection. Developed and integrated new industry leading technology and acquired United States Patent. Provided support to the sales effort, via technical presentations, sales calls and commercial presentations as well as proposal construction. Team leader and technical director for a \$750K design and development project for a state-of-the-art process equipment project for the chemical processing industry.

## **MATEER - BURT CO., INC., WAYNE, PA; MANAGER OF ENGINEERING:**

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Served as the engineering department manager for this specialty packaging equipment manufacturer. Directed the engineering and machine design of various pieces of packaging machinery, and the subsequent line integration effort for the food, pharmaceutical, health care, cosmetic, agricultural, and general chemical industries. With an engineering staff of 11, inclusive of technical and electrical engineers and designers, software engineers, detailers and technical documents coordinator; developed several computer-controlled process and packaging machines. Provided direct support to owners and contractors involved in the installation, validation, start-up and trouble-shooting of the packaging lines. Typical packaging line projects involved the integration of bottle feeders, unscramblers and washers, inspection /reject stations, conveying and transfers, rotary and table-top accumulators, dry powder and liquid fillers, check weighing, cap feeding and capping, induction sealing, labeling, neck banding, case erecting, case loading and packing and palletizing. Either a PLC or a single-board computer or both, tied to a communications network controlled these lines.

## **ADTECH INCORPORATED, SKIPPACK, PA; ENGINEERING MANAGER:**

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Directed the design and engineering efforts of this specialty packaging equipment manufacturer. The customer base being primarily pharmaceutical (85%) with the balance being food, cosmetic, health care and industrial. Managed a 10 person staff inclusive of mechanical and electrical engineers/designers, detailers and information coordinators. Conducted design reviews, directed R & D and cost reduction efforts, scheduled the department work, provided technical sales and service support, maintenance of budgets and administration of personnel actions. Provided on-site and remote assistance during the installation, validation, start-up and trouble-shooting of the complete packaging line.

## **NETZSCH INCORPORATED, EXTON, PA; MANAGER OF PRODUCT DEVELOPMENT - USA:**

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In addition to normal manufacturing, material management and engineering coordination, the position carried the additional task of designing and starting-up domestic manufacturing of a \$5MM segment of the company's product line (slurry grinding and dispersion equipment). Inclusive in the

start-up project was the responsibility for engineering, vendor procurement/approval, purchasing and configuration.

As manager of applications engineering, responsibilities included management of outside chemical processing applications, direction of laboratory operations, sales and rental machinery coordination. Outside sales and marketing support was an inherent requirement of the job, along with public speaking and customer training seminars.

**WESTINGHOUSE ELECTRIC COMPANY (COMBUSTION TURBINE DIVISION), CONCORDVILLE, PA; FIELD SERVICE/RELIABILITY ENGINEER:**

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Reliability and availability of combustion turbine power plants. Maintained accurate and detailed information regarding product problems, modifications, design changes and field failures. Specific responsibilities included engineering solutions to generic problems, field failure analysis, initiating corrective action and implementing field evaluation program throughout the United States and Mexico.

**SPANCO INCORPORATED, DOWNINGTOWN, PA; MECHANICAL DESIGNER:**

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Original designs, assembly and detail drawings, prototype fabrication and testing; for a line of material handling equipment (gantries, jib cranes and tri-pods).