

**SCOTT A. CONRAD, P.E.**

**EDUCATION**

University of Pittsburgh - Bachelor of Science in Mechanical Engineering Technology, 1987

Training in ISA Process Control and ICC International Mechanical Code

**PROFESSIONAL REGISTRATIONS & AFFILIATIONS**

Professional Engineer Licensed in Virginia and Pennsylvania

National Society of Professional Engineers

American Society of Mechanical Engineers

**CAREER HISTORY**

FORCON International, Virginia – Senior Mechanical Engineer

Boehringer Ingelheim, Virginia – Facilities Manager – Project Manager

Raytheon Engineers & Constructors, Virginia – Mechanical Project Engineer

The EADS Group, Pennsylvania - Mechanical Engineer

**PROFESSIONAL EXPERIENCE**

**FORENSIC INVESTIGATION**

- Mechanical forensic engineering investigations for building systems
- Mechanical building system damage and code compliance investigations

**SUMMARY OF EXPERIENCE**

Senior Mechanical Engineer for FORCON International Virginia Limited conducting investigations in areas of mechanical building system expertise.

Over twenty years of engineering, maintenance and project management experience involving building mechanical systems in numerous commercial, industrial and residential buildings. Experience includes mechanical building system engineering and design, building code compliance, system operation, equipment maintenance, and commissioning of mechanical systems.

Professional experience with numerous types of mechanical systems including heating and air conditioning, plumbing, compressed air, medium and low temperature refrigeration, steam and hot water heating, chilled water, gas storage and distribution, HEPA filtration, high purity water treatment, wastewater treatment, fire protection, hydraulics and waste heat recovery.

**SUMMARY OF EXPERIENCE (continued)**

Facilities Manager and Project Manager responsible successful facilities management activities required for a highly regulated pharmaceutical site owned by Boehringer Ingelheim. Directly responsible for the engineering, maintenance and operation of numerous building mechanical systems, utilities, high purity water systems, and fire protection systems. Responsibilities also included management, engineering and construction management activities for building expansions, HVAC, control systems, water treatment, fire protection, plumbing, compressed air, low temperature refrigeration and other building systems. Directly managed the engineering and operational activities required for an environmental water treatment facility that received a top Virginia industrial environmental award in 2004.

Lead mechanical project engineer responsible for managing the mechanical engineering activities for a major Philip Morris USA central utility plant expansion project. The expansion included the installation of two new 3,500 ton water chillers, compressed air system, chilled water and tower water pumps, cooling tower, process cooling system, water treatment system and PLC controls. This was the largest utility expansion at this Philip Morris central manufacturing site.

Lead mechanical project engineer responsible for numerous Reynolds Metals Company plant improvement projects. Responsibilities included HVAC, process, material handling, overhead crane, industrial waste treatment, compressed air and plumbing system engineering.

Mechanical project engineer responsible for project management and engineering activities required for HVAC, equipment and process improvement projects for the Nabisco bakery in Richmond, VA.

Project manager responsible for management and engineering activities required for the installation of a new high pressure process steam boiler for the Hercules Franklin, VA plant.

Lead mechanical project engineer responsible for the mechanical building system design of a new state of the art roofing production plant for GAF Corporation. Extensive HVAC, plumbing and process ventilation engineering activities were required.

Lead mechanical project engineer responsible for the engineering of the water treatment, HVAC, plumbing, natural gas, compressed air and various fire protection systems for the Gulf Aluminum Rolling Mill Company Facility in the country of Bahrain.

Project manager responsible for HVAC and fire protection projects at a Wachovia high speed printing facility.

Responsible for the engineering of several waste heat recovery cogeneration plants at Sun Coal and LTV Steel coke production facilities. Responsible for studies, cost estimates, equipment layout, piping design, calculations and equipment specifications.

**SUMMARY OF EXPERIENCE (continued)**

Project manager responsible for tenant space renovation projects involving mechanical building systems in numerous commercial office buildings.

Lead mechanical engineer responsible for numerous HVAC, plumbing, compressed air and fire protection projects at various Pennsylvania Electric and Alleghany Power plant sites.

Mechanical engineer responsible for numerous engineering and design projects at various institutional, commercial and residential buildings in the Commonwealth of Pennsylvania. Projects involved HVAC, plumbing, medical gas, fire protection and fire alarm systems.