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Objective: Mechanical engineering including design, load calculations, equipment selections, drawing schedules, ductwork & hydronic piping systems, installation details, cost estimates, specifications, review of construction shop drawings, personnel management and construction administration.

Mechanical Facilities and HVAC Engineering Work History:

(2005-Present) BCT, Inc., Lexington, KY. Restaurants, including LEED projects, hotels, churches, warehouses, apartments, schools, office buildings, animal shelters and strip malls.

(2004-2005) Barge, Waggoner, Sumner & Cannon Engineers, Knoxville, TN. Museum, air cargo facilities, casting manufacturing, office building, truck maintenance building, small University of Tennessee campus projects, and housing complex upgrades, contract position.

(2001-2003) Nissan Automotive Plant, Smyrna, TN. Weld water cooling system for body shop robot welders including piping, pumps, heat exchanger and cooling tower. New separate cooling tower system for existing air compressors in boiler house, battery charging area, conversion of fascia molding satellite chillers to central mechanical room chillers, and hot test duct revisions. Review of drawings and specifications and coordination of construction activities with the Engineer for the fascia and paint buildings at Canton, MS plant, contract position.

(2000-2001) Barge, Waggoner, Sumner & Cannon Engineers, Nashville, TN. Recreation center, geothermal detention center (jail), office building, geothermal college technical center, HUD single-family dwelling complex, and site mechanical inspections and reports for existing commercial buildings, contract position.

(1992-2000) Roberts, Quest, CAE, Taylor and BCT Inc., Lexington, KY. Schools, hotels, restaurants, theaters, warehouses, office buildings, hospitals, car dealerships, malls, computer rooms, VA telecommunication site preparation projects and wastewater treatment plants, book publisher, free lance work.

(1990-1992) M.K. Ferguson and E. I. Du Pont de Nemours & Co., Cleveland, OH. Specifications, purchase requisitions and bid evaluations for pumps, mixers, heat exchangers, blowers, rotary valves, screw conveyors, pneumatic conveying, classifiers, hoists and cranes, contract position.

(1989-1990) Lester B. Knight Co., Chicago, IL and PDR Engineers, Lexington, KY. IBM clean rooms and University of Alabama laboratory buildings, free lance and contract positions.

(1988-1989) Knight Korea Co. and U. S. Corps of Engineers, Seoul, Korea. Underground command posts with blast and CBR protection, computer rooms, hangers, entertainment centers, personnel housing and jet fuel dispensing stations, contract position.

(1983-1988) Keller and Gannon Engineers, San Francisco, CA; Kaiser Engineers, Arlington, VA; HMG Engineers, Austin, TX; CAE, PDR and Mason Hanger Engineers, Lexington, KY. Schools, shopping centers, fraternities, equine laboratory, manufacturing, industrial exhaust and pollution control systems, painting, plating, and waste treatment facilities, free lance and contract positions.

Qualifications: Professional registration (PE) in mechanical engineering, BS from the U of KY.