

RESUME'

Philip J. Bisesi, PE

Principal Engineer – Affiliated Consultants, Engineers

EDUCATION:

BSME	Illinois Institute of Technology, Chicago
Advanced Industrial Ventilation	NC State University Extension
Commissioning + Testing, Adjusting & Balancing	NEBB courses & exams
Controls design short course	Johnson Controls – Milwaukee
Energy Analysis	Trane Trace & NC Energy Division

PROFESSIONAL LICENSES, SOCIETIES AND CERTIFICATES:

PE	NC#5220
ASHRAE	Member
LEED PA	US Green Building Council
NEBB	TAB & Commissioning

EXPERIENCE:

49 Years Total in Mechanical/Electrical Engineering including energy, facilities & HVAC.
Started as a draftsman in 1955, then designer and test technician. Progressed to Engineering.

EMPLOYERS AND PROJECTS:

1956-7 R. H. Bishop Co., Mechanical Contractor – Champaign, Ill. HVAC duct fabrication drawings and shop drawings

1959 Worthington Corp. - Application Engineering – HVAC&R equipment selection

1961-7 Cartland Engineering, Park Ridge, Ill. – HVAC Designer and field technician. Developed high temperature drop design to minimize flow requirements in HW heating systems.

1968-9 Graham, Anderson, Probst & White, Chicago – Project Engineer – Life Cycle Cost and Energy Studies & Design for 45 story CNA Insurance building with 5000 tons of cooling, high pressure VAV, using point by point velocity regain duct calculations.

1970-2 Fenner & Proffit, Consulting Engineers, Wilson NC – Associate Engineer – HVAC & Plumbing Design – 600 ton A/C retrofit to hospital with VAV and add room pressure control.

1972-4 LBC&W, Architects & Engineers – Chief ME – institutional buildings

1974 > Affiliated Consultants, Engineers – founder & principal engineer – industrial chilled water system design, filament winding plant: industrial hygiene and recalculating airflow & balancing DX system for low RH room, Energy Conservation studies and retrofit specializing in air & water system testing and redesign, 3 pipe system resurrection, “heat-of-light to VAV/PIU retrofit for Southern National Bank, water conservation for Winston Dying and Finishing, comprehensive design analysis, operation & maintenance training and recommissioning of Lee Co. Hospital induction system. Forensic Engineering is used on existing HVAC systems to make them operate as well as possible. LEED energy analysis and HVAC design of geothermal heat pump system for Warren-Wilson College.

1977 > Affiliated Technical Services – founder & Commissioning & TAB Engineer – Retro-Commission and TAB a variety of buildings including pharmaceutical, clean rooms, hospitals, laboratories, manufacturing plants, schools and universities. Set room pressure relationships, recalculated pipe & duct sizes to achieve balance, calibrated controls. Developed computer programs to preset circuit setters and calculate control valve Cv's, and also to resize VAV boxes and ducts by considering velocity pressure. Retro-commissioned Colbond Corp. office. Changed-out windows. Reconfigured and calibrated Controls and reset air volumes to achieve comfort.