

CURRICULUM VITAE

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Experience

Vice President – Field Operations

Building Health Sciences, Inc. (BHS) – Rockville, MD

January 2004 – present

BHS provides comprehensive, medically-based risk management services, including investigations, risk communication, remediation planning and project management for mold and indoor environmental and air quality (IEAQ) issues which adversely affect building occupants as a result of building failures. At BHS, environmental and occupational medicine is coupled with expertise in building sciences. We are medical doctors, toxicologists, building scientists and construction executives with exceptional experience and a unique perspective regarding indoor environments and associated financial risks to property, occupants and business.

District Manager

June 2003 – December 2003

Limbach Company – Washington, DC Region

A \$400M national mechanical / electrical / plumbing contractor with nine regional offices. The Washington Region performed \$70M annually with over three hundred union field employees, pipe prefabrication facilities, CAD Planning and a service department for each of these three key building trades represented – mechanical, plumbing and electrical.

Chief Operations Officer

January 2003 – May 2003

Project Executive/Construction Manager

Nov 2001 – December 2002

Builders Group – New York, New York

BG performed \$250M with three divisions of interiors, technologies and base building construction in and around New York City. It also performed work nationally for key national customers such as Nextel Communications and Tiffany's. Work included landmark buildings and demanding customers such as television antenna installation for Fox 5 New York in the Empire State Building.

Executive Vice President – Strategic Business Development	January 2001 – October 2001
Vice President – Business Development	March 2000 – December 2000
Vice President – Construction Management	April 1999 – February 2000
Senior Project Manager – National Construction	December 1998 – March 1999

Encompass Global Technologies (EGT), Beltsville, MD

EGT performed \$200M of design/build and national service. Full responsibility and autonomy for all national construction, three regional offices and implementation of new corporate structure and quality assurance. Executive responsible for fast track construction of \$16M telecom site in New York City. Work performed in all major cities in the United States. Fast track, round the clock, deadline oriented work for demanding customers in demanding industry. Division performed \$40M of design/build work in first year for Nextel, Williams Communications MCIWorldcom, Colo.com, Global Crossing Telecommunications, Frontier Communications, Qwest Communications. Sites were located through entire United States and ranged in size from 2000 SF to 60,000 SF.

President / Owner	1979 – 1998
Mechanical Superintendent	1976 – 1979
Apprentice / Journeyman	1971 – 1976

Mechanical Contracting Company (MC Company)

MC Company was established in 1955 as a mechanical contracting (plumbing, heating, ventilating, air-conditioning and refrigeration) and site utilities company. It performed in the Washington Metropolitan areas as a general contractor, prime contractor and subcontractor at my direction in both the public and private sector. Contracts ranged to \$5 million on commercial and industrial projects with a maximum annual contract volume to \$15 million.

Education

The George Washington University, Washington, D.C.	1995
Master of Business Administration - Executive Program	
University of Florida, Gainesville, Florida	1968
National Science Foundation Merit Fellowship for Ph.D. Program; studies interrupted by military draft.	
The George Washington University, Washington, D.C.	1968
Bachelor of Arts in Geography with Geology minor	

Training & Seminars

- Co-Presenter; HazMat Explo 9 – Conference & Exposition. Topic: *Indoor Mold: The Science, Toxicity, Health Effects, Remediation and Ramifications*. November 2005 in Las Vegas, NV
- Mold-related Health Effects: Clinical, Remediation Worker Protection and Biomedical Research Issues - June 2004 in Washington, D.C.
- Mold and the Insurance Industry ExecuSummit - August 2004 in New York City
- Advanced Perspectives in Mold Prevention & Control: Crafting Professional Judgment for Assessment & Remediation Approaches to Varying Occupancies / Building Types. An educational symposium for industry professionals, government officials and public health practitioners - November 2004 in Las Vegas, Nevada
- National Air Duct Cleaners Association National Convention; Indoor Environments 2005 in Las Vegas, Nevada
- M6+ Conference: Mold, Moisture, Misery, Money, and Myth+ June 2005 in Orlando, FL

Highlights of Related Experience

Construction Management: national multi-site projects for single clients in mission-critical environment where fast track design-build construction was the model. Involved in all facets of project progress from pre-design activities such as defining business, facility and infrastructure requirements, through site selection, engineering, and construction management, to on-going critical facility systems maintenance and post-deployment infrastructure build-out and expansion.

Design-Build: comprehensive technical capabilities and management experience with planning and programming, design and engineering, construction and project management, implementation through construction operations, systems reliability and final turnover upon completion. Full understanding of system dependability, redundancy, emergency power and standby power generation, central heating and cooling plants.

Operations: overall responsibility for design-build operations in main office and three regional offices at EGT. Practical experience with selection, design, installation and maintenance of critical facility systems. Resource allocation of heavy equipment, tools, rough materials, suppliers, subcontractors and manpower efficiently coordinated across job sites without unnecessary duplication.

Estimating: major private subcontractor and prime bids to one hundred annually with full estimating staff and sophisticated computerized estimating software applied in an innovative fashion to create a competitive tool by reducing repetitious quantity take off associated with pricing self performed work. Continuous service work and jobbing bids. Experienced national conceptual pricing budgets, project cost development through final estimate and negotiations for mission critical sites.

Dispute Resolution: strong independent analytical skills developed as a trained commercial Arbitrator and Mediator for the American Arbitration Association since 1990 and private parties' arbitration on general, mechanical and residential construction disputes. Qualified Expert Witness - United States Eastern District Court, Virginia and other jurisdictions.

Litigation support for various attorneys and contractor clients including back-charge assessment, claims preparation, construction sequence analysis, schedule evaluation, situation analysis, expert testimony and settlement negotiations.

Alternative Dispute Resolution Training – American Arbitration Association

- Arbitrator Ethics and Disclosure, District of Columbia 2005
- Arbitration Awards: Safeguarding, Deciding & Writing Awards 2004
- Annual Arbitrator Update 2002
- AAA Construction Arbitration II Training – New York City 2002
- Construction Industry Arbitrator Training Work Shop – Philadelphia, PA 1997
- AAA Mediation Training – District of Columbia 1993
- AAA Basic Advanced Arbitrator Training, District of Columbia 1991

Licenses

Registered Master Plumber and Gasfitter - 1975 to 1998

Washington Suburban Sanitary Commission – Prince George's and Montgomery Counties
State of Maryland - counties recognize state license; additional registry fee may apply
State of Virginia District of Columbia

Registered Journeyman Plumber and Gasfitter – 1973 to 1975

Washington Suburban Sanitary Commission – Prince George's and Montgomery Counties

Registered Master HVAC Licenses - heating, ventilating and air-conditioning and refrigeration

State of Maryland and various counties

Fairfax County, Virginia - no state-wide qualification test; various counties only

Class "A" Virginia State Contractor's License

Individual State Qualification Examination required; permits company to perform any size project in Virginia on qualifier's license

Air Systems Cleaning Specialist

National Air Duct Cleaners Association

Maryland State Fuel Oil Tank Installation License

Maryland State requirement to install, remove or remediate underground fuel storage tanks and piping systems in accordance EPA regulations.

Class "A" Heavy Equipment Operator's License

District of Columbia - required to operate construction equipment such as: backhoes, loaders, cranes.

Maryland Commercial Driver's License - "AE" Classifications (any vehicle)

(A) - Semi-tractor-trailer, lowboy tractor-trailer, dump truck, automobile; (E) motorcycle

Construction Expertise

Administrative Services

Standard Plans and Specifications Estimates and Quantity Take Off
Leader / Participation as Design/Build Team Member
Conceptual & Budget Estimating - Mechanical / Site Utilities
Value Engineering
Quality Control Guidelines & Implementation
Change Order Preparation & Evaluation
Job Planning Services and Training
Scheduling & Coordination

Design / Build and General Contracting

Design Team Selection and Coordination Services through Program Development
Construction Management Services – fee based
Fixed Fee / Guaranteed Maximum Price Projects
National Roll-out Programs for National Customers

Mechanical Contracting

New Commercial Construction, Renovation & Retrofit
Heating, Ventilating and Air-Conditioning / Refrigeration
Plumbing, Pipefitting and Welding
Ductwork, Insulation, Systems Balance, Air and Water Balance
Automatic Temperature Controls / Building Automation Systems
Building Commissioning & Start-Up
Building Investigations, Failure Evaluations & Equipment Inventory/Condition Assessments

Mechanical Services

Commercial Refrigeration & Freon Recovery
Preventive Maintenance & 24 Hour Service
Industrial Maintenance & Repair
Millwright & Rigging Services

System Troubleshooting & Tune Up – Problems Solved
Underground Services
Sanitary Sewers, Forced Mains and Pumping Stations
Water Main, Fire Main & Underground Storage Tanks
Water Quality Structures & Storm Water Management
Underground Fuel Storage Tank Installation & Removal
Landfill Methane Gas Recovery Piping & Systems
Landfill Leachate Collection & Conveyance Systems
Underground Central Steam & Hot Water District Heating Systems
Dirt Excavation, Site Work, Grading & Hauling
Hydroseeding, Sediment/Erosion Control & Site Restoration

Selected Reference Projects

Design Build

2003	Fox 5 Television – New York City, Television Transmission Facility and Antenna at The Empire State Building. Construction Manage / Build	\$3,500,000
2002	Department of Sanitation New York City, Vehicle Test Analysis Facility Design / Construction Manage / Build	\$13,500,000
2001	Colo.com Telecommunications Switch Facility, New York City Design / Build and Construction Manager	\$14,500,000
2000	Global Crossing Telecommunications Switch Facility, Chicago, Ill Design / Build and Construction Manager (180 day construction period))	\$13,300,000
2000	Nextel Communications, Orlando-Lake Mary, FL Construction Manager – owner furnished design (60 day construction period)	\$3,550,000
2000	Qwest Communications, Raleigh, NC Design / Build and Construction Manager	\$3,800,000
2000	Williams Communications, Miami, FL Design / Build and Construction Manager (90 day period for entire process)	\$6,800,000
2000	Global Crossing Telecommunications Switch Facility, Philadelphia, PA Design / Build and Construction Manager	\$4,250,000
1999	Global Crossing Telecommunications Switch Facility, Atlanta, GA Design / Build and Construction Manager	\$3,285,000
1999	Qwest Communications, Boston, MA Design / Build and Construction Manager	\$6,200,000
1999	Williams Communications, Boston, MA Design / Build and Construction Manager (180 day period for entire process)	\$13,000,000

Construction

2003	Porter Neurosciences Facility, National Institutes of Health Mechanical and Plumbing Subcontractor	\$8,500,000
2003	Station Place I & II – Securities and Exchange Commission Offices Mechanical and Plumbing Subcontractor	\$22,000,000
2003	Eighth & I Streets U.S. Marine Corps Band Facility and Barracks Mechanical, Plumbing and Electrical Subcontractor	\$8,004,000
1998	Chopticon High School - Renovation and Addition - Maryland Mechanical Subcontractor	\$3,100,000
1997	Bay View Hills - Townhouse and Residential Lot Site Development (221 lots) - Maryland Construction Management – overall site development	\$3,500,000
	Underground Site Utilities – storm, sanitary, water	\$876,000
1992	Prince George's County Brown Station Land Fill - Maryland Underground Leachate Conveyance, Duplex Lift Station and Storage System Mechanical and Underground Site Utilities Subcontractor	\$1,150,000

1992	Northern High School Renovation - Calvert County Public Schools, Maryland Mechanical & Electrical Subcontractor	\$1,384,000
1991	Democracy Plaza II - Ten Story Commercial Office Building & Tenant Fit-out - Maryland Mechanical Subcontractor	\$2,600,000
1991	Plum Point Middle School New Construction - Calvert County Public Schools, Maryland Mechanical Subcontractor	\$1,494,000
1991	W*USA Channel 9 - Gannett News Corporation Television Studio and Office Complex - Wash, D.C. Mechanical Subcontractor	\$2,640,000
1987	Watkins Mill High School New Construction - Montgomery County Schools, Maryland Mechanical Subcontractor	\$3,300,000
1987	US Naval Academy Brigade Activities Center Indoor Athletic Facility - Annapolis, Maryland Mechanical Subcontractor	\$2,700,000
1987	Sunderland Elementary School New Construction - Calvert County Public Schools, Maryland Mechanical Contractor and Site Utilities	\$1,200,000
1987	Hyatt Plaza Ten Story Office Building – Virginia Mechanical Subcontractor	\$1,690,000
1986	Lincoln Place Twin Towers Twelve Story Office Building & Tenant Fit-out - Alexandria, Virginia Mechanical Subcontractor	\$3,407,000
1986	FBI Academy New Agents Thirteen Story Dormitory - Quantico, Virginia Mechanical Subcontractor	\$2,435,000
1986	Hot Water District Heating System - Housing Authority Baltimore City; Baltimore, Maryland Central Underground Hot Water Distribution System (approximately 16 miles) Prime/Mechanical Contractor	\$2,398,000
1985	Chancery Redevelopment - Embassy of Japan, Washington, D.C. Mechanical Subcontractor	\$2,564,417
1984	Prince George's County Correction Center Site Preparation & Underground Methane Pipeline Prime Contractor	\$1,130,000

Selected Privatization Reference Projects

Representative privatization contracts with government agencies where services were performed on a time and material basis as an extension of a facilities' forces. In some cases, it is supplemental to the owner's forces and in others the customer is completely dependent upon the contractor for the full scope of services.

MONTGOMERY COUNTY T & M HVAC Service Contract #04934

1 year duration w/ two renewable years (June 1993 to June 1996) (75 projects annually)

MONTGOMERY COUNTY T & M HVAC Service Contract #05893-AA

1 year duration w/ two renewable years (June 1990 to June 1993)

Maintenance, repair and new installations of all types HVACR equipment and related construction renovations in any County owned or operated facility such as office buildings, court houses, detention centers, training facilities, senior centers, police stations and fire houses. Work included air and water balance evaluations of existing facilities, control systems, chiller, cooling tower, boiler replacement to fan coil unit change outs.

WASHINGTON SUBURBAN SANITARY COMMISSION Mechanical T & M Contract #177

3 Year Preventive Maintenance Contract (starting 1992)

WASHINGTON SUBURBAN SANITARY COMMISSION Mechanical T & M Contract #905

1 year duration w/ two renewable years (starting 1995)

WASHINGTON SUBURBAN SANITARY COMMISSION Mechanical T & M Contract #179

1 year duration w/ two renewable years (starting 1993)

WASHINGTON SUBURBAN SANITARY COMMISSION Mechanical T & M Contract #432

1 year duration w/ one renewable years (starting 1992)

WASHINGTON SUBURBAN SANITARY COMMISSION Mechanical T & M Contract #18189

1 year duration w/ two renewable years (ending 1991)

Maintenance and repair on all types wastewater equipment, clarifier removal and re-assembly, refurbish bar screens completely, slide gate and mud valve installation, effluent and sludge line work, sludge press repairs, chlorine, de-ionized and caustic piping, sludge press modifications, screw auger removal and associated gear box replacement, water tower overflows. There was no definitive scope of work other than the stated objective; frequently our participation involved crafting a solution which would then be executed. This encompassed work in Prince Georges and Montgomery County at any WSSC Wastewater Treatment Plants or Water Filtration/Treatment Facilities. It included certified underground fuel oil storage tank testing and removal as required of approximately forty underground storage tanks from 500 to 20,000 gallon capacity.

WASHINGTON SUBURBAN SANITARY COMMISSION HVAC Preventive Maintenance Contract #177 - 1 year duration w/ one renewable year (starting 1992)

Monthly preventive maintenance at forty facilities located in Montgomery and Prince George's County including summer/winter conversions, monthly filter changes, shut-downs and major equipment cleaning and upgrades. The standard of care for WSSC preventive maintenance – excellence - precluded major repairs; this was also an emergency response contract. It required no less than three service technicians dedicated to the performance and response demands of the customer.

PRINCE GEORGE'S COUNTY T & M Repair and/or Maintenance Service (HVAC Systems)

1 year duration w/ two renewable years (starting July 1, 1993)

Emergency HVAC services only due to budgetary constraints in effect at time of contract. All replacement work was performed by competitive bidding. There was no preventive maintenance performed under our contract nor by the Owner's forces precipitating one crisis after another. Patching, not fixing, the problem was the County's approach.

PRINCE GEORGE'S COUNTY #S93-063 Underground Storage Tank Removal/Replacement

1 year duration w/ two renewable years (starting July 1, 1993)

Underground storage tank removal - predominantly restricted to tanks which were leaking; no other criteria was suitable to trigger expenditures by the County. Minimal contaminated spoil removal was involved; tank disposal was subcontracted out due to EPA requirements for transport and hauling.

The I*nk Company - Waldorf, MD - Plant Relocation/Maintenance/Construction

Relocation of one of a national manufacturer's ink production plants. The plant was completely dis-assembled / re-assembled under their engineering department's direction with all piping, rigging and millwright services provided by our firm. Equipment included Kady Mills, vertical indoor ink storage tanks, mixers, shot mills, pumps, dust collectors, compressors and proprietary ink manufacturing equipment. This relocation was sufficiently well received that it led to a sole source relationship between The I*nk Company and MC Company whereby all plant re-tooling, new industrial production process line installations, major outages, new building additions and plant process piping modifications were performed under my direction.