



RESUME

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EDUCATION

Gettysburg College, BS, Chemistry, Cum Laude.
Class Honors, Chemistry and Physics.
Graduate studies, Communications, University of South Florida.
Graduate studies, Structural Eng., University of Kentucky.
Mod I Value Engineering Training Workshop, Al Del Isola, CVS.
Mod II Value Engineering Seminar, Barlow Associates, SAVE Conference
Chemical Warfare School, Philadelphia Navy Yard.

SOCIETIES

Construction Research Council.
Building Industry Consulting Service, International, LIFE.

National Society of Professional Engineers.
Society of Military Professional Engineers, Honorary.
SAVE International, Fellow, LIFE.
Certified Value Specialist, LIFETIME, No. 740428.
Approved MOD I Training Workshop, SAVE No. 99009.
Approved SAVE MOD II Teaching Seminar, 99017-II
Building Research Institute.
PhiGammaDelta

PROFESSIONAL

MILITARY

Captain, Military Intelligence.
Commanding Officer, Signal Photo-mail (V-Mail) Company.
Commanding General's Staff, US Army Forces in the Middle East (USAFIME)
Theater Photographic Officer, USAFIME, Cairo, Egypt.
Theater Postal Officer, USAFIME, Heliopolis, Egypt.
Senior Intelligence Officer, (Albania) Office of Strategic Services.
Clandestine Espionage Missions, OSS, 33 behind enemy lines.
Commanding Officer, OSS Austria (Tirol and Voraarlberg).
Undercover Intelligence Agent, Central Intelligence Agency (CIA)
Austria. Intelligence Officer, CIA; Italy, Albania, Austria, Germany and Bulgaria.

AWARDS

Bronze Star Medal.
Invasion Arrowhead.
Six Battle Stars, Middle East, North Africa, Sicily, Italy, Balkans.
Distinguished Service, Building Industry Consulting Service.
Harry J. Pfister Award for Outstanding Service to Building Industry, GTE.
BICS Award, University of South Florida.
Kentucky Colonel, Commissioned by Governor Julian M. Carroll.
Kentucky Colonel, Commissioned by Governor Edward T. Breathitt.
Outstanding Building Industry Pioneer, TELEPHONE ENGINEER & MANAGEMENT.
Silver Castle Award, '85 and '86, European Division, Corps of Engineers.
Distinguished Service Award, Society of American Value Engineers.
National Director, Individual Honors and Awards, SAVE.
Lifetime Achievement Award, National Capital Chapter, SAVE

PROFESSIONAL HISTORY

President, Aldan Chemical Enterprises, Chester, Pennsylvania
Director, Research and Development, Walker of Conshohocken, PA
General Manager, Howard Electric Company, Chicago, Illinois
General Manager, Gateway Engineering Company, Chicago, IL
President, King-Hudson Consultants, Elmhurst, Illinois
National Manager of Systems, Square D Company, Lexington, KY
Editor, SYSTEMS BUILDING NEWS Magazine, Atlanta, Georgia
President, Building Industry Consulting Center, Columbia, MD

PROFESSIONAL EXPERIENCE

Principal, James W. Hudson & Associates, Spotsylvania, VA
Innovator of Systems Building, Value Engineering in Construction, Construction Ecology,
and Construction Simulation.
First VE Teaching Seminars to government and public owners, architects, engineers, and
contractors
First instructor in VE Training Workshops for the American Institute of Architects
First instructor in VE Training Workshops for the American Consulting Engineers Council

Value Engineering Consultant to owners, architects, engineers, and contractors since 1970
24 chemical and construction patents including:

The perforated joist concept which allows the economic placement of openings strategically located through cast-in-place concrete beams and joists to be used for the distribution of electrical and telephone wires, cables, conduits and HVAC ducts, without reducing bending moment or shear capacities. The concept was used in such structures as the \$120 million International Monetary Fund Headquarters in Washington, DC; the Bell Telephone Building in Albuquerque, New Mexico; and the Electrical Cooperative Headquarters in Winchester, Kentucky.

Introduced VE to the largest firms in Italy such as Olivetti, Montedison, Sasti, Telettra, Gallileo, and DUCO. Those trained were forerunners to the formation of the Society of Italian Value Engineers.

Established the Building Industry Consulting Service, International (BICSI) of the Communications Industry. This is the premier interface between Construction and Communications, including computers and telephone industries. Membership in 1994 reached 5,000. In 2000 it is 20,000

Established the first BICS Conferences in Lexington, KY, and Tampa, Florida, sponsored by Universities of Kentucky and South Florida. The first co-sponsors were AT&T and GTE.

Introduced the forerunner of VE in construction, Systems Building, and was first Editor of the SYSTEMS BUILDING NEWS, a magazine with a circulation of 30,000 devoted to that new technology.

Conceived and constructed the first Construction Simulator for the International Monetary Fund Complex as a design tool for AE's and owners to study, before construction, the actual combinations of components and systems, full size, to detect any abnormalities or inconsistencies, avoid change orders, and avert disasters.

Pioneered the discipline of Construction Ecology in 1965, a positive approach to compatibility of construction and the environment. First to proclaim the Environmental Allowance during design of major projects.

Frequent author and speaker on VE to encourage sound Construction Ecology and construction innovations such as the planting of living rooftops and balconies, featured in National Wildlife, Parks & Recreation, Systems Building News, Smithsonian Magazine, Washington Post, and other publications.

Chairperson for the Joint Cost Management Societies JCMS 2000 Convention in Anaheim, CA

PUBLICATIONS

Prolific contributor to the technical and public press including”

- NATIONAL WILDLIFE MAGAZINE
- SMITHSONIAN MAGAZINE
- ELECTRICAL CONSTRUCTION AND MAINTENANCE
- PARKS AND RECREATION, SYSTEMS
- BUILDING NEWS
- CONSULTING ENGINEER
- ARCHITECTURAL RECORD
- TELEPHONE ENGINEER & MANAGEMENT
- QUALIFIED CONTRACTOR
- TELEPHONY
- JOURNAL OF CIVIL ENGINEERING
- THE WASHINGTON POST
- BUILDINGS
- LEXINGTON, KY HERALD-LEADER
- VALUE WORLD.
- Author of 241, TWO PERSONS FOR ONE JOB, a book devoted to the use of VE to change the approach to Human Resources, using VE to implement the program.

SPECIFIC PROJECT EXPERIENCE IN VALUE ENGINEERING

TRIMET, West, \$800,000,000 project; light rail/highway, Portland, Oregon.
Aviation Highway Corridor, a \$160,000,000 extension of Route 210 through Tucson, Arizona. VE proposed savings of 38%.
Vehicle Maintenance Shops and hardstands in 12 US Army units in Germany, including Reichel Kaserne, Hessisch Oldendorf, Hanau, Hohenfels, Crailsheim, Rheinberg, and Zweibruecken.
300 Bus Storage and Maintenance Facility, Hartford, CT. (\$40,000,000)
Valley Metro Bus Storage and Maintenance Facility, Roanoke, VA
Infrastructure, Fort Drum (\$800,000,000), Watertown, NY
Trained both VE Teams of the Joint Venture (20 professionals) Parsons-Brinckerhoff-Quade and Douglas (PBQD) and Bechtel, Civil, for the \$4,400,000,000 Central Artery and Third Harbor Tunnel project, Boston, MA.
Kearney Connection, heavy rail, New Jersey Transit, a new link between a major commuter line and AMTRAK giving Northern New Jersey direct rail access to New York City. (\$80,000,000).
Cumberland Gap Highway Tunnel between Kentucky and Tennessee.
Newark Waterfront Connection; heavy rail. (\$80,000,000)
Army Maintenance shops and Facilities including Fort Eustis, Fort Drum, Fort Lee, Fort A.P. Hill, Fort Pickett
Renovation of Electrical and Mechanical Systems, Archives of the USA, DC
Civil Engineering Complex, Nellis Air Force Base, Nevada
Central Vehicle Wash, Fort Pickett, Virginia
Operations and Engineering Center, Dugway Proving Grounds, Utah
Alternate Launch and Recovery Runway, Zweibruecken, Germany
Petrochemical Complex, Montedison, Venice, Italy
Telletra Communications, Milano, Italy
Magrini Galileo, High Voltage Breakers, Battaglia Terme, Italy
Magrini Galileo, Ultra High Voltage Transmission, Bergamo, Italy
Expansion of the Rochester Airport Terminal, Rochester, NY
Aircraft Maintenance Hangars and Shops (AVIM), Fort Drum, NY
Supply Depot, Hessisch-Oldendorf Air Force Base, Germany
Avionics Research Laboratory, Edwards Air Force Base, CA
Supply Depot, McClellan Air Force base, George AFB, CA
Air Warrior Support Complex, Nellis Air Force Base, California
Unaccompanied Enlisted Personnel Housing, Langley AFB, VA
Unaccompanied Enlisted Personnel Housing, Beale AFB, CA
Conforming Storage Facility, McClellan Air Force Base, CA
USAF Intelligence Headquarters, Echterdingen AFB, Germany
F-15E Field Training Detachment Facility, Luke AFB, California
Upgrade Electrical Distribution, Griffiss Air Force Base, NY
Upgrade Electrical Distribution System, Radford Army Ammunition Plant, VA
Wetzel Road Waste Water Treatment Plant, Onondaga County, NY
Gaskin Road Pumping Station, Gaskin, NY
Child Care and Community Center, Dugway Proving Ground, Utah
NCO Officers Club w/beverage outlet, Fort Irwin, California
Army Youth Center, Sierra Depot, California
Unaccompanied Officers Personnel Quarters, Fort Drum, NY
Division Headquarters, Fort Drum, NY
Battalion Headquarters, Fort Drum, NY
Company Headquarters and Administration, Fort Drum, NY
UPH with Dining, Fort Eustis, Virginia
Hazardous Materials Storage, Defense Supply Depot, Virginia
UPH with Dining and Company Admin, Reichel Complex, Germany
Child Development Center, Crailsheim Barracks, Germany

Consolidated Maintenance Facility, Defense Supply Depot, VA
Sewage Treatment Plant, Fort Pickett, Virginia
Military Operations in Urban Terrain, Hohenfels, Germany
DUCO Paint Plant, Fombio, Italy
Clor-Soda Plant, Brindisi, Italy
Research Laboratory, Cairo, Egypt
Scripps Research Clinic, San Diego, California
Army Reserve Center, Fort Eustis, VA
Garmatz Federal Office Building, Baltimore, Maryland
Federal Office Building, Topeka, KS
Federal Office Building, Saginaw, MI
Federal Office Building, Williamsport, PA
Federal Office Building, #6, Washington, DC
Equitable Trust Building, Washington, DC
Bender Building, Washington, DC
Renovation of the Old Post Office, Washington, DC
Renovation, Central Intelligence Headquarters, Langley, VA
Renovation of the General Accounting Office Building, DC
Renovation of the Indian Affairs Building, Washington, DC
Renovation of GSA Headquarters, 18th & F Sts, Washington, DC
Renovation of GSA Central Region Headquarters, Washington, DC
Renovation of the National Archives, Washington, DC
Renovation of the Department of Justice, Washington, DC
Park Place Hospital, Port Arthur, TX
Belleaire General Hospital, Houston, TX
Brownsville Medical Center, Brownsville, TX
Northeast Medical Center, Houston, TX
Katy General Hospital, Katy, TX
Quincy General Hospital, Quincy, MA
Town and Country Hospital, Tampa, Florida
Odessa Women's and Children's Hospital, Odessa, TX
Westgate Hospital & Medical Center, Denton, TX
Alcoholism Recovery Center, Katy, TX
Park Place Professional Office Building, Port Arthur, TX
Equitable Life Assurance Society 43 story Hqs., NYC, NY
Uris Brothers 40 story Hi-Rise, Lexington Avenue, NYC, NY
United Nations US Missions Bldg., NYC, NY
Roof Garden, 110 Fifth Avenue, NYC, NY
South Garden, Battery Park City Authority, NYC, NY
School of Pharmacy, Medical College of Virginia, Richmond, VA
Parking Structures, Towson State University, Baltimore, MD
Denton District Courthouse, Denton, MD
Maximum Security, MD House of Corrections, Jessup, MD
Brockbridge Correctional Institution, MD
Spofford Juvenile Detention Facility, NYC, NY
Lexington St. Parking Facility, University of Maryland
Vocational Building, MD House of Correction
Charlotte Hall Veterans Home, Maryland
Preinkert Hall, University of Maryland, College Park, MD
Coppin State University Gymnasium, Maryland
Horn Point Environmental Laboratories, Maryland
National Fire Academy, Maryland
Renovation of the GSA Regional Office Bldg., DC
Renovation of the Pentagon HVAC, DC
Renovation of the Old Post Office, DC
Department of Justice, DC

Bureau of Indian Affairs, DC
Kentucky Highway Route 462, Bridge and Approaches
Cumberland Gap Tunnel and Approaches, Kentucky
Wyoming Valley 50 MGD WWTP, Wilkes Barre, PA
Somerset WWTP, Kentucky
Elizabethtown WWTP, Kentucky
Mayfield WWTP, Kentucky
Providence WWTP, Kentucky
Burnside WWTP, Kentucky
East Kentucky Rural Coop Hqs., Winchester, Kentucky
Mountain Bell Exchange, Albuquerque, New Mexico
Contract H-1, NEORS D Interceptor, Cleveland, Ohio
Contract H-2, NEORS D Hilltop Interceptor, Cleveland, Ohio
Contract H-3, NEORS D Cleveland, Ohio
Port Authority NY & NJ, 56 buildings, Roof Repair, Newark & Brooklyn
Madisonville WWTP, Kentucky
Combined Sewer Overflow (CSO) Master Plan, Cleveland, Ohio
Renovation of Federal Office Building, Richmond, VA (GSA)
Modernization of the State Department, Washington, DC
Chicago Circulator, Light Rail Transit, Chicago, IL
Big Creek Interceptor, Cleveland, Ohio
Tawes Building, Eastern Shore Hospital, Maryland
School of Pharmacy, University of Maryland, Baltimore, MD
Midway Corridor, Light Rail Transit, Minneapolis, MN
Renovation of the Justice Data Center, Rockville, MD
Upgrade Utilities, Fort A. P. Hill, VA
Storm Drainage System, City of Tuscon, AZ
Vehicle Maintenance Shops , (DIVTRPS), Fort Drum, NY
Vehicle Maintenance Shops, Hanau, Germany
Brooklyn Children's Museum, NYC, NY
Nansemond Wastewater Treatment Plant, Hampton Roads, VA
Enlisted Personnel Housing, Beale AFB, CA
Civil Engineering Complex, Nellis AFB, CA
Operations and Engineering, Dugway Proving Ground, Utah
NCO Club with Beverage Outlet, Edwards AFB, CA
ADAL Depot Warehouse, McClellan AFB, CA
ADAL Avionics Research Laboratory, Edwards AFB, CA
Commissary, Fort Drum, NY
Renovation, Oceanographic Building, Silver Hill, MD
Steam Tie Line, Radford Army Ammunition Plant
Continuous Production Process for Nitroglycerine, Radford AAP
Treatment of Red Water, by-product of TNT manufacture, Radford
Technical Advisory Board, Chicago Circulator Light Rail Project
Big Creek Interceptor, NEORS D, Cleveland, OH
Hopkinsville Waste Water Treatment Upgrade and Expansion, Kentucky
School of Pharmacy, University of Maryland, Baltimore, MD
Midway Corridor Light Rail; St. Paul to Minneapolis, MN
Roof Repair of 56 Buildings, Port Authority of NY & NJ
Eglinton Twin Tunnels, Toronto Transit Authority, CANADA
Fine Arts Center, Virginia Commonwealth University, Richmond, VA
Allen Station Tail Track, LRT, Toronto, CANADA
Academic Parking Facility, VCU, Richmond, VA
VE Training Program, University of Virginia, Charlottesville, VA
Sinking Creek Waste Water Treatment Plant, Somerset, KY
New Dining Hall, Longwood College, Farmville, VA

Lebanon, KY, New Waste Water Treatment Plant
New Six lane Bypass Highway, Rte 29, Lynchburg, VA
James River Bridge, Rte 29, Lynchburg, VA
Yonge Station, Sheppard Subway, Toronto, CANADA
Heights Interceptor deep tunnel and control structure, Cleveland, OH
Human Resources Association Headquarters Building, Washington, DC
Sheppard Subway WYE Break-in and tunnel, Toronto, CANADA
Traffic Control Center, Toronto, CANADA
Sewer, interceptor, and WWTP, Latrobe, PA
Conestoga Valley Middle School, Manheim, PA
Juvenile Correctional Center, Culpeper, VA
Mill Creek Lower Segment Interceptor, Cleveland, OH
Bayview Station, Sheppard Subway, Toronto, CANADA
Residence Hall, Payne Site, Virginia Polytechnic Institute, Blacksburg, VA
Heights Interceptor, Contract 7C, NEORS, Cleveland, OH
Swem Library, William & Mary College, Williamsburg, VA
Supreme Court Chief Justice Warren Burger Memorial Library, Williamsburg, VA
Rappahannock Regional Jail, Fredericksburg, VA
Appraisers Stores Building, Baltimore, MD; GSA
LIFEMARK, Five Alcoholic Recovery Centers, Houston, TX
Pacific Bell Tekephone, Computer and Multi-Purpose Office Building, Bellevue, WA
Kings County Hospital Center, Renovation and Addition Brooklyn, NY
Liberty Loan Building Renovation, DC; Tim Shackelford, GSA PM.
Radcliff, Kentucky WWTP, Quest Engineers
Maysville, Kentucky, WWTP, GRW Engineers
J.W. Powell Building, GSA, Reston, VA
Renovation of ten laboratories, USGS, DC (\$32,000,000)
Heights Deep Tunnel Interceptor, NEORS Contract C, Cleveland, OH
Family Courthouse & Agency Facility, Renovation, Brooklyn, NYC, NY Dormitory Authority
New Southside Regional Jail, Emporia, VA; Moseley, Harris & McClintock Designer
Russellville WWTP, Russellville, KY, Quest Engineers
SPECIFIC PROJECT EXPERIENCE IN VALUE ENGINEERING (CONTINUED)
Owensboro WWTP, Kentucky, Quest Engineers
New Waldron College Health Sciences Facility, Radford University, Virginia
New Medical Sciences Building, UVA, Virginia
Highway 416, Ministry of Transportation, Ottawa, Canada, VECP
Alleghany Regional Jail, Covington, VA
Elementary School, Bonsack Area, Roanoke County Public Schools, Virginia
Heights Interceptor, Contract B, Dodson Stilson, Cleveland, OH
New Juvenile Corrections Facility, Roanoke, VA
New Bonham Elementary School, Roanoke County, VA
Extension of Highway 410, Ministry of Transportation, Ottawa, Canada, Vertical Rock Cut
Queen=s Medical Center, NYC, NY, NY State Dormitory Authority
U.S. Courthouse, Washington, 3rd & Constitution Ave, DC, Renovation and new Annex,
GSA
Social Security Complex, Renovation, New Façade, Baltimore, MD, GSA
New Roanoke Juvenile Detention Center, Roanoke, VA
UVA Biomedical Engineering & Medical Science Building, Charlottesville, VA
Mill Creek Tunnel , MCT-2, NEORS; Montgomery Watson, Cleveland, OH
Mill Creek MCSO-1, -2, -3, NEORS; URS Greiner, Cleveland, OH
Water Treatment Plant, Morehead, KY; Commonwealth Engineering
Southern Maine Juvenile Facility, South Portland, ME (\$21,000,000)
Northern Maine Juvenile Facility, Charleston, ME (\$21,000,000)
MCI-Warren Maximum Security, Maine Dept. of Corrections. (\$56,000,000)
Female Unit (100 bed) Correctional Center, S. Windham, ME

Brumfield Elementary School, Warrenton, VA; Fauquier County
Deep Tunnel Interceptor, Cleveland Heights, OH (\$32,000,000)
Shanks Hall, Renovation, Virginia Tech, Blacksburg, VA
Special Housing, (Fraternity)(new) Virginia Tech, Blacksburg, VA
Social Security Administration, Baltimore, MD (\$34,000,000)
Martinsville Jail, Martinsville, VA (\$11,000,000)
Waste Water Treatment Plant, Williamburg, KY
Potable Water Treatment Plant, Phase II, Morehead, KY
Bardstown, KY Wastewater Treatment Plant
State Library Resource Center, Enoch Pratt Free Library
512 Cell Housing, Western Correctional Institute, Cumberland, MD, DPSCS
Value Management Peer Review of CSO Program, Ft. Wayne, IN
Main Building, Baltimore Community College, Baltimore, MD
Special Collections Library, University of Virginia, Charlottesville, VA
New Roanoke County High School, Roanoke, VA
Shepherdsville, KY Wastewater Treatment Plant, ADAL
Northern Virginia, Community College, New Medical Campus, Springfield, VA
Shepherdsville, KY Wastewater Treatment Plant, ADAL
Historical Restoration and Addition, Peters Hall, Radford University, Radford, VA
Qatar Steel Co., Qatar, MOD II Training
CSO Master Plan, City of Ft. Wayne, IN
Olivetti, International, Process Review, Ivrea, Italy
Widening of Route 1, Santa Clara, California
Curbs and Drainage, National VE Study, Federal Highway Administration,
Traffic Signals, National VE Study, Federal Highway Administration,
Highway Lighting, National VE Study, FHWA, DOT
Army Aircraft Support Facility, Fort Eustis, VA
Historical Renovation of the Winder Building, Washington, DC
Elementary School, Deer Lakes School District, Pennsylvania
Bardstown Wastewater Treatment Plant Expansion, Kentucky
Shepherdsville, KY WWTP Upgrade and Expansion
Mt. Sterling, KY, New Wastewater Treatment Plant
New Housing Unit V (500 students), George Mason University, Fairfax, VA
Historical Restoration, Finance Building, Capitol Plaza, Richmond, VA
Automated Data Systems Facility, Marine Corps Development & Education Command,
Quantico, VA
METRA Transit, Southwest Service Expansion, Chicago, IL
New Jail, Loudoun County, VA, Zaman Nouri, PE, PM
London, KY, WWTP, ADAL
Intercommunity Relief Sewer, Pipe-in-Tunnel, Tuxedo Avenue/230 Improvement, Cleveland,
OH
District Courthouse, Silver Spring, MD; MD DGS
Replacement Jail, Chesterfield County, VA, Moseley Architects
Interceptor Repair & Rehabilitation, Cleveland, Ohio, Brown & Caldwell
Gravity Belt Thickener System, Cleveland, Ohio, Metcalf & Eddy
Skimmings Removal Process, Cleveland, Ohio, CH2M Hill
Headworks Replacement, Winchester, KY, Black & Veatch

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