

Professional Resumes – Construction Services Staff

JAMES McMANUS, CSI

James McManus is the Business/Operations Manager of the Construction Services (CTS) Group at Thielsch Engineering. He is responsible for the development, management, and activities related to the operation of the department.

Mr. McManus has more than 25 years experience in construction materials testing and quality assurance programs covering soils, concrete, and asphalt. He has been associated with projects on a national and international level, where laboratory and/or field construction material tests (primarily non-destructive) have been conducted during the project design and construction phases.

His construction monitoring experience has included test borings, earthwork control, pavements, concrete, and subsurface soil surveys/investigations. He has also performed joint research and development testing with the US Army Corps of Engineers, Waterways Experimental Station (WES), for the purpose of developing new and improved methods for the design, construction, evaluation, rehabilitation, and maintenance of structural systems for airfields.

Mr. McManus is a retired United States Army Corps of Engineers First Sergeant who has provided field project management throughout the Pacific Rim, Southeast Asia, Saudi Arabia, the Federal Republic of Germany, Central America, and many locations within the United States.

Mr. McManus' professional affiliations include: the Construction Specifications Institute, the Army Engineers Association, active membership as a service provider to the Associated General Contractors Association (AGC), and the International Mold Remediators Association.

ROBERT A. BASILE, P.E.

Robert Basile is a Senior Mechanical Engineer at Thielsch Engineering. His responsibilities include mechanical and metallurgical engineering evaluations, failure analysis, and forensic investigations of equipment and components utilized in chemical process plants, refineries, power generation facilities, pulp and paper mills, and other industrial and manufacturing plants.

Mr. Basile's expertise includes rotating machinery, pressure vessels, piping, boilers, and other equipment. He has been involved extensively with aircraft engines, gas turbines, space propulsion systems, and construction project management. Mr. Basile has also performed delay analyses on project schedules to determine and resolve the cause of delays. He has prepared

protocols and physical evidence exhibits for attorneys and insurance adjusters in product liability and construction damage claims.

Mr. Basile has over 20 years of experience including various aspects of design, manufacturing, and the repair and testing of mechanical equipment. He has designed fan, compressor, combustor, turbine, and gearbox components and hardware. He also is capable of developing and managing Component Improvement Programs (CIP) and projects that allow customers to increase the time between inspections thus reducing down-time.

In addition, Mr. Basile has experience in commercial and construction litigation and arbitration proceedings dealing with complex products liability and construction damages claims. He has provided advice to General Contractors to reduce liability for cost overruns by developing project management procedures which track changes and directly link changes to schedule impact. He has also assisted General Contractors in reviewing insurance policies and bonds to reduce over-exposure on jobs and increase overall bonding.

Mr. Basile is a licensed professional engineer with over nineteen years of mechanical engineering experience. He received his B.S. degree in Mechanical Engineering from Northeastern University. He attended the University of Florida for graduate studies in Mechanical Engineering Design and holds professional engineering (PE) licenses in Florida, Indiana, and Massachusetts. Pratt and Whitney and Rolls Royce have presented him with design awards for resolving complex engineering problems utilizing creative design solutions.

Mr. Basile is a member of the American Society of Mechanical Engineers, the Society of Professional Engineers, the Society of Gear Manufacturers, and has lectured at engineering conferences.

ALLEN SCHUELE

Allen Schuele, a Senior Engineer at Thielsch Engineering, performs various types of inspection protocols, inspection and management programs, and engineering and evaluation services to the Process Industries, including the petro-chemical, pharmaceutical, and paper industries.

He has over 20 years of experience in providing a broad range of engineering and inspection services to the process industry. This includes his knowledge of industry standards, federal and state regulations, and Good Manufacturing Practices as defined by the FDA.

He has developed, implemented, and provided customer-focused Mechanical Integrity Programs, Inspection Programs, and PSM Programs, emphasizing the essential requirements for quality and customer service.

Mr. Schuele has performed on-site inspections on pressure equipment, piping systems, and storage tanks in both petro-chemical and pharmaceutical plants. His expertise in determining the condition of equipment and how it relates to continued operation has lead him to assist with redesign, alterations, and repair protocols. He has also been instrumental in establishing data management systems utilized for risk based inspection protocols and compliance issues.

He holds a Bachelor of Arts degree from the College of Emporia in Emporia, Kansas. He holds certifications from the American Petroleum Institute as an authorized Pressure Vessel Inspector (API-510), Aboveground Storage Tank Inspector (API-653), and Authorized Piping Inspector (API-570). He is also certified by the American Society of Nondestructive Testing as a TC-1A, Level III in UT, MT, PT, and a Commission Boiler Inspector – Commonwealth of Pennsylvania.

Prior employment experiences include Operations Advanced Technologies Manager for Cooperheat-MQS of Houston, Texas; Inspection Services Manager with Eastern Region for Corpro Companies, Inc. of Medina, Ohio; and Technical Services Manager with Accu-Tech Evaluation Services of Rahway, New Jersey.

Mr. Schuele is a member of the American Society of Mechanical Engineers, American Welding Society, American Society for Nondestructive Testing, American Society of Metals, and the National Association of Corrosion Engineers.

JAMES HEYWOOD

James Heywood has more than 20 years of experience in materials testing and quality assurance programs covering soils, concrete, and asphalt. He has been associated with over 200 projects where laboratory and/or field material tests have been conducted during the construction phases.

As the Senior Materials Engineering Technician, he manages all in-house laboratory materials testing. He performs and supervises the execution of the full range of laboratory soil tests common to the geotechnical field including physical properties, compaction, and classification, along with unique research efforts conducted for a variety of clients. Mr. Heywood also performs full-scale field tests of soils, concrete, and asphalt. He is certified by the nationally recognized National Institute for Certification in Engineering Technologies (NICET) as a Level II inspector, the American Concrete Institute (ACI) as a Level II Technician, and the Asphalt Board. Mr. Heywood is also ASTM Nuclear Gauge certified.

Mr. Heywood has over six years of experience providing quality assurance plant inspection and testing services for pre-cast/pre-stressed cement concrete. His responsibilities have included inspecting and verifying the accuracy of dimensions and conditions of molds; verifying the batching, mixing, materials

handling, placing, consolidating, and curing of concrete; and inspecting tensioning operations to ensure conformance with specified procedures. He has sampled fresh concrete and maintained complete quality control records.

Mr. Heywood's professional experience includes Lead Resident Inspector, Quality Control Inspector, and Laboratory/Field Technician for numerous multi-million dollar construction projects.

ROGER THOMAN

Roger Thoman has more than 18 years experience in the construction industry, specializing in quality assurance/control programs. Mr. Thoman's capabilities extend to materials testing covering soils, concrete, and asphalt. He has been associated with projects located throughout New England during all phases of construction where laboratory and/or field construction material tests have been conducted.

As the Senior Engineering Field Technician, Mr. Thoman performs and supervises the execution of the full range of field tests of soils, concrete, and asphalt. He is an accredited participant in the nationally recognized, American Concrete Institute (ACI) Level I Technician and is MCIB and ASTM Nuclear Gauge Certified.

Mr. Thoman is a graduate of Wentworth Institute of Technology, in Boston, Massachusetts. He holds a Bachelor of Science Degree in Engineering Technology and an Associate Degree in Civil Engineering Technology.

Mr. Thoman's professional experience includes Lead Resident Inspector, Quality Control Inspector, and Field Technician for numerous multi-million dollar construction projects.