



Building Science, Environmental & Energy Consultants
Cleveland, OH 44095 PH 440-946-7191 Email: al@closerlookinspection.com

Statement of Qualifications



AI Tibbs, CPMP, CIEC, CIAQT, CIAQM

Education/Training:

- 3 Year Apprenticeship Program – Cleveland Building Trades Council (Journeyman 13 yr.)
- Chicago Technical College – Blueprint Reading & Construction Estimating
- Environmental Support Solutions – Indoor Air Quality Management
- Training Services International – Asbestos Inspector, Asbestos Management Planner
- Radalink – Radon Measurement Operator
- OSHA – Hazard Communication, Personal Protective Equipment
- University of Oklahoma – Bloodborne Pathogens
- University of Maryland – Asbestos and Lead in Project Management
- US EPA Enforcement Training Institute – RCRA Inspector Training
- US EPA Enforcement Training Institute – Basic Inspector Training
- National Emergency Training Center (FEMA) – Introduction to Mitigation
- Infrared Training Center (ITC) – Infrared Thermography Training
- American Industrial Hygiene Association (AIHA)
 - Continuing Education
 - Mold Assessment, Remediation, and Prevention: Applying Current Best Practices
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
 - Continuing Education
 - HVAC Systems: Thermal Comfort
 - Introduction to DDC Controls for HVAC
 - The Building Commissioning Process and Guideline 0
- Building Commissioning Association (BCXA)
 - Continuing Education
 - Existing Building Commissioning Best Practices
 - OPR, BOD, SM – Expensive, Useless Encumbrances or Valuable, Cost-Effective Tools
 - Commissioning Issues of Open-Protocol Building Automation Systems
- Indoor Sciences, Inc.
 - Continuing Education
 - HVAC and IAQ
- Association of Energy Engineers
 - Continuing Education
 - Lighting: Performing Commercial Lighting Audits
- Southface

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- Training
 - Building Commissioning: Ensuring High Performance Green Buildings
 - Basics of Daylighting in a Green Environment
 - Water Efficiency for High Performance Commercial and Institutional Buildings
 - HVAC Management for High Performance Existing Buildings
 - Planning and Conducting Green Design Charrettes
- National Institute of Building Sciences (NIBS)
 - Training
 - *The Integrated Design Process*
- Centers for Disease Control (CDC)
 - Case Studies in Environmental Medicine:
 - Radon Toxicity
 - Benzene Toxicity
 - Environmental Triggers of Asthma
 - Toluene Toxicity
 - Asbestos Toxicity
- American Institute of Architects (AIA) Approved Training
 - Continuing Education Courses
 - Understanding Thermal Performance and XPS
 - Understanding Steels Stud, Moisture Resistance, and XPS
 - Water Management of the Building Envelope
 - Moisture Protection in Masonry
 - Architectural Applications of Spray Polyurethane Foam Systems
 - Specification on Vinyl Floor Coverings
 - Exterior Insulation Finish System (EIFS)
 - EIFS With Drainage
 - Cement Board Stucco System
 - Control of Condensation, Mold and Energy Leakage to Improve Building Performance
 - Asphalt Shingles and Roofing Products
 - Helping Your Clients Maintain Good Indoor Air Quality
 - Assuring Water Resistance of Masonry Construction
 - Antimicrobial Material A Way To Inhibit Mold And Mildew Growth
 - ABC's of Designing and Constructing High-Performance Educational Facilities
 - Flooring Over Concrete Slabs: Avoiding Failure Through Moisture Mitigation and Proper Design
 - IAQ: HVAC Systems & Common Measurements
- Construction Specifications Institute (CSI)
 - Continuing Education Courses
 - Green Building Envelope Design
- U.S. Dept. of Energy Midwest Regional Weatherization Conference 2006
 - Continuing Education Courses
 - Duct Triage – Best Practices for Existing Homes
 - Sizing Heating Systems
 - Using and Interpreting Infrared
 - Zonal Pressure Diagnostics
- ACI /Ohio Department of Development Home Performance Conference 2007
 - Continuing Education Courses
 - Preventing Moisture Failures in Buildings
 - Heat Loss & Heat Gain
 - Issues with ASHRAE 62.2
 - Moisture Physics
 - Durable Wall Systems

- Intro to Mechanical Ventilation
 - Systems Approach to High Performance Buildings
 - Delta Q Update: Using Blower Doors for Duct Leakage Testing
- U.S. Department of Energy
 - Continuing Education Courses
 - Standard 90.1-2007: Envelope Overview
- New York State Energy Research and Development Authority (NYSERDA) (AIA Approved Training)
 - High Performance School Design
 - Energy Efficient Building Shell Methods
 - Good Building Envelope Design
 - Acoustics
 - Indoor Air Quality
 - Healthy Interiors and Materials Efficiency
 - Daylighting Principles
 - Lighting Design
 - Lighting Sources
 - Thermal Loads
 - Ventilation
 - HVAC System – Design and Selection
 - Special HVAC Systems, Equipment and Controls
 - Resource-Efficient Flooring
 - Water Conservation
 - Fenestration
 - Buildings, Grounds and Construction Waste
 - Site Design and Alternative Fuels
 - Commissioning
 - Maintenance & Operations
 - M & O of Building Envelopes
 - M & O of HVAC and Mechanical Equipment
 - M & O of Electrical Systems and Lighting
- Certainteed
 - Education & Development Program
 - The Exterior Wall: A Systems Approach
 - Low Slope Bituminous Roof Systems
 - Principles of Attic Ventilation
- General Electric (GE) Lighting & Electrical Institute
 - Training
 - Transformer Basics
 - Switchgear Basics
 - Circuit Breaker Basics
 - Panelboard Basics
 - Busway Basics
- Siemens
 - Training
 - System 600 Apogee Field Panel Operations
- Lighting Controls Association
 - Continuing Education
 - Introduction to Lighting Controls
 - Lighting and LEED NC Version 2.2
 - Switching Control
 - Occupancy Sensors Technology
 - Fluorescent Dimming: Commissioning & Troubleshooting
- Advanced Infrared Resources (Wayne Ruddock)
 - Infrared Thermography Level I Training

- Introduction to the 1st & 2nd laws of Infrared Thermography
- Thermal Analysis
- Thermal Physics: matter and energy
- Temperature: Introduction definition
- Temperature: scales, conversions
- Heat & Thermodynamics
- Conduction and Convection
- Change of State & Specific Heat
- Radiation
- The Electromagnetic Spectrum
- Black Body Radiation and the 3 Laws
- The Infrared Image and Emissivity
- Accurate temperature calculations
- Emissivity Testing
- Camera Operation Basics: 2 Classifications of Thermography
- Field of View (FOV)
- Instantaneous Field of View Instantaneous Measurement Field of View
- IR Lenses and windows
- Infrared Reports, 2 classifications of Inspections
- Electrical Inspections
- LEED (Leadership in Energy and Environmental Design) Green Building Rating System® Basics for Owners, Engineers, and Design/Build Contractors
- LEED III: Choosing Green Products
- LEED-EB: Technical Review Workshop
- LEED-H: United States Green Building Council - Introduction to LEED for Homes
- LEED-H: LEED for Homes 101 – Jay Hall, Building Knowledge, Inc.
- LEED: Cost Benefits of LEED (Feb. 28, 2008 Paul Shahriari/Knoch Corporation)
- LEED: Energy Efficiency Strategies for Schools Series
- Consulting-Specifying Engineer - Engineering and Commissioning High-Tech Green Buildings
- Energy Star
 - Higher Education ENERGY STAR Overview
 - Commercial Real Estate: Best Practices to Improve Energy Performance
- American Indoor Air Quality Council – Certified Indoor Air Quality Technician Review Course, Certified Indoor Environmental Consultant training
- International Code Council (ICC) – Soils Investigations, Ventilation, Hot Water Systems
- Civil Engineering Technology
- National Comfort Institute – HVAC System Balancing & Diagnostics
- National Comfort Institute – Carbon Monoxide & Combustion Analysis
- 203k Consultant Training (Registration #P0901) – Cleveland HUD Offices

Certifications/Licenses:

- International Code Council (Combination Inspector; Mechanical, Electrical, Plumbing, Building) Certifications # 5170241-R5 and # 5170241-B1
- International Code Council (Energy Inspector/Plans Examiner) Certification # 0881534-79
- ASHRAE - Commissioning Process Management Professional (CPMP)
- U.S. Green Building Council – LEED Accredited Professional (EB Track)
- U.S.Green Building Council – LEED AP Homes
- Resnet
- Roof Consultants Institute – Registered Roof Quality Control Observer
- National Balancing Institute – HVAC System Balancing & Diagnostics

- Board Certified Indoor Environmental Consultant (CIEC) American Indoor Air Quality Council (CESB Accredited¹)
- Board Certified Indoor Air Quality Manager (CIAQM #1160) National Registry of Environmental Professionals
- Board Certified Indoor Air Quality Technician (CIAQT # 44486) Association of Energy Engineers
- Department of HUD 203k Consultant/Plan Examiner # P0901
- State of Ohio Asbestos Hazard Evaluation Specialist # 34024

Memberships :

- Association of Energy Engineers (AEE)
- American Indoor Air Quality Council
- Indoor Air Quality Association (IAQA)
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
- Building Enclosure Technology & Environment Council (BETEC)
- National Institute of Building Sciences (NIBS)
- Building Commissioning Association (BCA)
- National Registry of Environmental Professionals (NREP)
- International Code Council (ICC)
- Roof Consultants Institute (RCI)
- Residential Energy Services Network (RESNET)
- RESNET – Infrared Scanning Task Force
- RESNET – Green Rater Certification Task Force
- Sustainable Buildings Industry Council (Technical Committee Member)
- Greater Cleveland Green Building Coalition
- U.S. Green Building Council (Technical Committee Member)
- Professional Thermographers Association

Experience:

- Performed over 6000 residential and commercial building assessments, investigations, commissioning/retro-commissioning
- LEED™ Team Member - Lowenstein/Durante Architects (LEED Homes)
- LEED™ Team Member - Summit Metro Parks
- LEED™ Team Member – Platform Cement (Cleveland State University)
- LEED™ Project Manager – New Era Builders, Inc. (NASA Glenn Research Management Conference Center, Building 60 Rehab)
- LEED™ Team Member – Oberlin Fire Station
- LEED™ Team Member – Cogswell Hall
- Performed over 500 environmental investigations since 1995 (including radon, asbestos, microbial, carbon monoxide, Phase I ESA's)
- Consulting for Ohio companies. Marino Contracting, Barr Bros. Construction, O'Connors Remodeling, OCO, Inc., Squires Roofing, Equity Real Estate Developers, Town Center Construction, Burgess & Niple – Architects & Engineers, Siemens Building Technologies, Inc., Integrated Engineering Consultants, Inc., Lowenstein/Durante Architects, Panzica Construction Co., New Era Builders, Inc., Platform Cement, Inc., Doty & Miller Architects
- Performed consultant work for Department of Housing and Urban Development since 1994-2006. (Including residential project estimation, specification creation and supervision)

¹ Council of Engineering and Scientific Specialty Boards

- Performed construction defect assessments and investigations since 1992 throughout the State of Ohio.
- Performed building commissioning, assessments and oversight on facilities including Braeview Assisted Living Facility, Avenbury Lakes Lodge, Meriam Process Technologies, Willoughby Hills Friends Church, Regency Hospital, Perry High School, TC Wolf Chocolat Co., Gardens of Western Reserve – Assisted Living, Gould International, Lorain County Veterinary Clinic, PathMaster, Inc., Avon Oaks Assisted Living Facility, Harborside Healthcare, Summit County Metro Parks, Village at St Edward, NASA Glenn Research Center Management Conference Center and Building 60 Rehab
- Arbitration and expert witness projects (Cuyahoga, Lake, Geauga, Franklin County Common Pleas Courts)
- 15+ Years of hands on experience in commercial and residential construction (Projects: BP America, Tower City, Society Center, Justice Center Phase II, Medical Mutual of Ohio, LTV Steel, Perry Educational Village, Perry Nuclear Power Plant, Numerous Residential Projects)

Partnerships:

- Rebuild America (U.S. Department of Energy)
- Partnership for Advancing Technology in Housing (PATH)
- Builders Challenge (U.S. Department of Energy)

Publications/Media:

- Author of numerous papers and articles relating to construction inspection and safety for National Home Inspector publications (ASHI - Reporter, NAHI – Forum) Local Television Appearances (NewsNet5, Newscenter 8, WKYC 3), Radio Programs on WELW and WERE relating to construction and assessment.
- Author of internet publication and web sites including:
 - www.closerlookinspection.com
 - www.ohiotoxicmold.com
 - www.ohioinfrared.com

Training/Speaking:

- Air Conditioning Contractors Association (ACCA) – Cleveland Chapter CEU class; October 2007
- Specialized Training Sessions for Integrated Engineering Consultants, Inc., Dorsky, Hodgson, Parrish, Yue (DHPY) Architects
- Willoughby/Eastlake Public Library, Energy Efficient Homes Lecture
- CWRU, Association of Energy Engineers – Energy Conference 2008, Commissioning LEED Buildings
- American Institute of Constructors, Northern Ohio Chapter – LEED for Contractors

Published Works:

- ***What You Don't Know Could Not Only Hurt You, It could Cost You***; Columns **MoldInc.** Magazine, Harris Martin Publishing, August 2004 pg 7
- ***Poor Flood Response Results in Added Cost to Insurers***; Columns **MoldInc.** Magazine, Harris Martin Publishing, August 2004 pg 8-9

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