

**ENGINEER: STRUCTURAL, CIVIL**

**KENNETH T. CRUMP, P.E.**  
Engineering Design & Testing Corp.  
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**EDUCATION:**

1999 Bachelor of Science, Civil Engineering  
The University of North Carolina, Charlotte, NC

**EXPERIENCE:**

2003  
to Present **Engineering Design & Testing Corporation, Charlotte, NC**  
Consulting Engineer. Provide expert witness consultation and testimony; analysis of damage to structures, roofs, building envelopes and foundations; provide causation, segregation and scope of damage assessment; evaluation of earth movement, earthen slopes and retaining walls; conduct value of loss assessments, prepare and review cost estimates; analysis of hailstone impact damage; determination of wind forces and wind damage; evaluate cause and scope of moisture damage; conduct infrared examinations and assessments of building materials; evaluate buildings for code compliance; assess compliance with OSHA and ADA standards; determine causation and scope of damage to bridges, stormwater systems and pavements; provide scope and causation of crane and rigging damage

2002  
to 2003 **REA CONSTRUCTION, Charlotte, NC**  
Provided engineering and management support to multiple bridge projects in the Charlotte area. Scheduled suppliers/subcontractors, handled submittals, and coordinated design/build construction between design engineers and field staff. Design functions included substructure and superstructure formwork, temporary shoring, and temporary bridges. Primary software experience included Sure Trak, MathCAD, and AutoCAD. Field experience included the forming and placing of reinforced concrete structures, pile/panel noise wall construction, and surveying. Projects consisted of both new construction and the widening of existing structures. Bridge projects included I-77 design/build, I-85/I-485 and HWY 27 over the Catawba River.

2000  
to 2002 **CONTECH CONSTRUCTION PRODUCTS, Charlotte, NC**  
Provided economic product-based design and construction solutions to Developers, Engineers, and Contractors. Product knowledge including, but not limited to the following: Modular Block Retaining Walls, Steel Bridge Structures, Arched Culverts, Erosion Control, Storm Water Detentions Systems, Tensar Geogrids with unstable soils, and Pile Shell deep foundations.

1999  
to 2000

**J.A. JONES CONSTRUCTION, Pittsburgh, PA**

Office Engineer for \$110 million dam project. Project was first of its kind for USACE using “in the wet” construction. Project involved the construction of pre-cast concrete dam segments and floating them to final position in order to eliminate traditional cofferdams. While at the project, my responsibilities were as follows: tracking project costs, coordinating & selecting subcontractors, coordinating project submittals and change orders, developing unique tilt-up concrete erection methods, creating project-specific environmental protection planning, designing batch plant area layout, designing layout of temporary railroad overpass bridges, and designing/administering the office computer network.

1998  
to 1999

**J.A. JONES CONSTRUCTION, Charlotte, NC**

Conducted project engineering focusing primarily on crane lift planning using AutoCAD to model equipment and lifts and to design accurate engineered lift plans that maximized equipment efficiency and minimized safety risks; Assisted projects in equipment estimating, purchasing and rental.

1997  
to 1998

**MALCOM PIRNIE, INC., Charlotte, NC**

Conducted land planning functions including site layout, surface water routing, culvert and channel design, and erosion control design; reviewed construction submittals; design of landfill closure caps.

1996  
to 1997

**J.A. JONES CONSTRUCTION, Charlotte, NC & Dumas, AK**

Worked on construction of 100 Megawatt Diversion Channel Hydropower Generating Station - tracked and updated project quantities & cost vs. budget, especially concrete, formwork, and rebar; schedule and purchase materials for concrete batch plant operations; assisted project manager with database creation for project progress monitoring and analysis; Heavy Civil and Marine Estimating - conducted heavy-highway construction estimating; prepare material take-offs of roadway cut/fill volumes, site work grading and building materials for construction estimate preparation; Equipment Division - Provided crane & rigging planning, estimating, and created detailed crane lift plans and equipment models with AutoCAD.

**CONTINUING EDUCATION:**

NCDOI Accredited Presentations Given: *Property Damage From High Winds; Modular Block Retaining Wall Failures; When Roofs Go to Hail; Thermal Imaging – Its Better In Color, Moisture Control Methods For Attics, Crawlspace and Basements; Commercial Roofing Systems*

- *How To Become A Dangerous Expert Witness*, SEAK, Inc., 2007, Cape Cod, Massachusetts
- *Level I Industrial Rope Access Training*, Skala, 2010, Reno Nevada
- *Design of Wood Connections*, ASCE, 2008, Charlotte, North Carolina
- *Advanced Deposition Skills For Experts*, SEAK, Inc., 2007, Cape Cod, Massachusetts
- *Building Systems*, Snell Infrared, 2007, Charlotte, North Carolina
- *Build Your Knowledge*, The Engineered Wood Association (APA), 2006, Greensboro, North Carolina
- *Structural Renovation Of Buildings*, ASCE, 2005, Tampa, Florida
- *Confined Spaces Compliance Training*, National Safety Council, 2004
- *Wind Loads For Buildings And Other Structures*, ASCE, 2003, Charlotte, North Carolina
- *Seismic & Wind Design Considerations For Concrete Buildings*
- ACI, 2003, Boston, Massachusetts
- *Basic Supervision*, The Employers Association, 2003, Charlotte, North Carolina
- *Mobile Crane and Rigging Safety*, Lift Equipment Training, 2002, Charlotte, North Carolina
- *U.S. Army Corps Of Engineer Quality Control Training*, 2000, Pittsburgh, Pennsylvania

**PROFESSIONAL ORGANIZATIONS:**

American Society of Civil Engineers (ASCE)  
American Concrete Institute (ACI)  
Society of Professional Rope Access Technicians (SPRAT)  
Wood Truss Council of America (WTCA)

**REGISTRATIONS:**

Registered Professional Engineer in North Carolina (#028453)  
Registered Professional Engineer in South Carolina (#23385)  
Registered Professional Engineer in Tennessee (#00108944)  
Registered Professional Engineer in Virginia (#0402039174)  
Registered Professional Engineer in Kansas (#18306)  
Registered Professional Engineer in Kentucky (#24206)  
Registered Professional Engineer in Florida (#00061487)  
Registered Professional Engineer in West Virginia (#17456)  
Registered Professional Engineer in Alabama (#30738)  
National Council of Examiners for Engineering and Surveying (Record # 23637)

(Revised: 11/10)