

# Kenneth T. Crump, P.E.

Civil/Structural Engineer

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## Professional Experience

### Crump Engineering Works, PLLC , Charlotte, NC

**Current**



Principal Engineer. Professional Civil-Structural Engineering Services. Focused on assessing, valuing, and designing engineered repairs, renovations, alterations or restorations of existing structures, roof coverings, building envelopes and other site features. Designs and specifications offered for the repair of damage caused by wear-and-tear, deterioration, moisture, erosion and catastrophe. Engineering studies for building and property risk assessment, capital expenditures, value-engineering and cost segregation. Specialty safety consulting services including fall protection and crane lift planning.

### Engineering Design & Testing Corporation, Charlotte, NC

**2003-2013**

Consulting Engineer and ED&T Personal Fall Protection Equipment (PFPE) Training Coordinator. Trained employees to use rope-assisted roof climbing system and aerial lifts. Assisted in writing of Elevated Work Surfaces Safety Manual. Provided expert witness engineering services related to building structures, bridges, roofs, building envelopes, earthen structures, slopes, retaining walls, dams, foundations, stormwater systems and pavements. Evaluated damages caused by wind, wind-driven rain, flooding, erosion, vibrations, hail and lightning. Prepared reports for causation, scope of damage and value of loss. Level I Industrial Rope Access Training.

### Rea Construction, Charlotte, NC

**2002-2003**

Project Engineer. Provided engineering, project management, construction and design-build support for highway and interstate bridges. 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. Field construction experience included crane and rigging, the forming and placing of reinforced concrete structures, pile/panel noise wall construction, and surveying.

### Contech Construction Products, Charlotte, NC

**2000-2002**

Sales Engineer. Provided product-based engineering and construction solutions to Developers, Engineers, and Contractors. Product knowledge included retaining walls, large diameter/span metal plate culvert

structures, erosion control systems, stormwater detentions systems, pipe rehabilitation, synthetic geogrids for soils and earthen slopes.

**J.A. Jones Construction, Charlotte, NC, Pittsburgh, PA, Dumas, AR** **1996-2000**

- Began as Engineering Co-op in 1996 and continued employment post graduation in 1999. Office Engineer for \$110 million dam project for United States Corps of Engineers. Project involved the construction of pre-cast concrete dam segments and floating them to final position in order to eliminate traditional cofferdams. Responsibilities included tracking project costs, coordinating subcontractors, environmental protection planning, concrete batch plant layout and temporary railroad overpass bridges and other technical engineering services.
- Provided engineering support to national projects related to crane and rigging and other heavy construction equipment. Utilized AutoCAD designs software to provide crane lift design plans that maximized equipment efficiency and minimized safety risks. Assisted projects in equipment estimating, purchasing and rental.
- Worked on construction of 100 Megawatt Diversion Channel Hydropower Generating Station. Tracked and updated project quantities, costs and budget. Quality control inspection and scheduling of concrete formwork and placement. Assisted project manager with database creation for project progress monitoring and productivity analysis.
- Worked at Heavy Civil and Marine Division estimating large-scale construction projects related to highways, locks, dams and water treatment construction facilities.

**Malcom Pirnie, Charlotte, NC** **1997-1998**

Conducted land planning functions including site layout, surface water routing, culvert and channel design, and erosion control design. Designed landfill closure plans. Reviewed construction submittals.

## Education

**Bachelor of Science in Civil Engineering, University of North Carolina at Charlotte** **1999**

## Registrations:

**Registered Professional Engineer** in North Carolina (028453), South Carolina (23385), Tennessee (00108944), Virginia (0402039174), Kansas (18306), Kentucky (24206), Florida (00061487), West Virginia (17456), Alabama (30738), New York (092085), Maryland (0042802), (National Council of Examiners for Engineering and Surveying (23637)

## Professional Organizations:

Society of Civil Engineers (ASCE), American Concrete Institute (ACI), Society of Professional Rope Access Technicians (SPRAT)