

# Charles Stephen Dixon, PE, CEM

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## Experience

*1993–Present    Dixon & Dixon Inc.  
(Part time)*

*Raleigh, NC*

President

- HVAC design and consulting for local Architectural and Engineering firms.
- Field monitoring and verification for local Engineering firms.
- Provide certified training for Professional Engineers and Electrical Contractors via the Internet.
- Internet based business selling collectible toys.

*1993–Present    Carolina Power & Light*

*Raleigh, NC*

Project Engineer - Energy Engineering – Sales & Marketing

- Perform energy analysis for external and internal customers
- Take field measurements of actual equipment performance
- Develop software tools to aid sales and technical personnel
- Key Projects:
  - ◇ Glaxo Wellcome chillers study at Zebulon, NC facility
  - ◇ Guilford Mills NC & PA
  - ◇ CP&L Customer Relationship Management Development Team Member
  - ◇ NCSU analysis of chilled water for multiple buildings
  - ◇ Charles Craft CFC and chiller analysis
  - ◇ Developed software analysis and programming tool for ABB kW meter

*1988–1993    O'Brien/Atkins Associates, P.A.*

*RTP, NC*

Project Engineer - Mechanical Engineering

- Coordinated and prepared construction drawings
- Conducted field inspections of installations and reviewed shop drawings
- Assisted in developing new business
- Key Projects:
  - ◇ Sprint/Carolina Telephone (Lead Engineer)      Wake Forest, NC
  - ◇ GE Aircraft Engines      Rutland, VT & Durham, NC
  - ◇ Mitsubishi Semiconductor America      Durham, NC
  - ◇ Burroughs Wellcome Co.      Greenville, NC
  - ◇ North Carolina A&T State University      Greensboro, NC
  - ◇ Caterpillar, Inc.      Clayton, NC

*1986–1988    Southern Piping Company*

*Raleigh, NC*

Project Manager - Mechanical Contracting

- Estimated and coordinated installation of mechanical systems
- Prepared construction drawings as required

- Monitored project cost
- Conducted field inspections of installations and reviewed shop drawings
- Key Projects:
  - ◇ Weston One Cary, NC
  - ◇ Chapel Hill Schools Summer HVAC program Chapel Hill, NC

1984–1986 Fenner & Proffitt Consulting Engineers Wilson, NC  
 HVAC Designer - Mechanical Engineering

- Developed engineering calculations
- Worked with Project Engineer to develop construction documents
- Helped to computerize work procedures

Education North Carolina State University Raleigh, NC  
 Bachelor of Science degree in Mechanical Engineering (1984)

Licenses Professional Engineer North Carolina & South Carolina  
 Electrical Contractor (Unlimited) North Carolina  
 Mechanical Contractor (H1, 2 & 3) North Carolina  
 Plumbing Contractor North Carolina  
 General Contractor North Carolina  
 Certified Energy Manager (CEM)  
 Certified Provider for Professional Engineering and Electrical Contractor  
 Continuing Education in North Carolina

Professional Societies & Publications American Society of Heating Ventilating and Air Conditioning Engineers (ASHRAE)  
 National Society of Professional Engineers (NSPE) – Web Committee  
 National Council or Examiners for Engineering and Surveying (NCEES)  
 Electric Power Research Institute (EPRI) - Advanced Motor Drive News – Fall 1996 –  
*“CP&L Works with Customers for Better Use of ASD’s”*