
E BROOK DURHAM

E Brook Durham is a Senior Consultant for D² Tech Solutions, a laboratory and technology related firm concentrating on Mechanical and Electrical systems and conversions. She is also a Senior Failure Analyst for THEWAY Labs, Bixby, OK, a failure analysis, laboratory, management and operations group that conducts training, develops computer systems, and provides design and failure analysis of facilities and electro-mechanical installations. She specializes in failure analysis, mechanical design and technology integration.

Her work experience is broad, and encompasses many areas of the mechanical industry. Brook spent her first years with Ford Motor Company as a Process Engineer for several glass manufacturing processes, such as cut/grind, gas hearth tempering and soldering. She then accepted a position as Electrical and Mechanical Associate for Lauren Engineers and Constructors, a consulting firm in Abilene, Texas. Her responsibilities included document management, electrical design and mechanical design for large industrial/commercial facilities such as Eastman Chemical. She then moved on to work with John Zink Company, a subsidiary of Koch Industries and a large supplier of oil/gas industry equipment, as an Application Engineer in the Flare Technology Group. During her tenure at John Zink, Brook had one of the highest sales and success rates of the entire department, as well as achieving some of the most technically advanced designs. She left John Zink Company to accept her current positions.

Brook Durham's extensive client list includes the development of a broad spectrum of forensic, mechanical and facilities projects for many companies. She also has worked with insurance and law firms on establishing failure cause. She has also published an article on advancing alternative energy vehicles.

Brook received the B.S. in mechanical engineering from the University of Tulsa in 1992. She maintains her continuing education requirements in order to stay appraised of developing technologies and learn new skills.

Degrees Earned

BSME, The University of Tulsa

Areas of Specialization

failure analysis and laboratory exams
mechanical designs
HVAC design review
petroleum & chemical industry
electrical / mechanical energy conversion
economics & management

Registration

Professional Engineer – OK
Professional Engineer – NH
Professional Engineer – TX
Professional Engineer – AR
Professional Engineer – KS
Professional Engineer – MO

Experience

D ² Tech Solutions, Inc. Senior Consultant	2001 - present
THEWAY Labs Senior Failure Analyst	2004 - present
John Zink Company. Flare Technology Group Applications Engineer	1997 - 2001
Lauren Engineers & Constructors Electrical and Mechanical Engineering Associate	1994 - 1997
Ford Motor Company, Tulsa Glass Plant Mechanical Process Engineer	1992 - 1994

Professional Memberships

Member	International Association of Arson Investigators
Member	American Society of Mechanical Engineers
Member	National Fire Protection Association
Member, CFEI, CFVI	National Association of Fire Investigators
Fellow, CFC	American College of Forensic Examiners

Honors and Awards

Honor Societies

Tau Beta Pi, national engineering honors
Phi Kappa Phi, national engineering honors