

ENGINEER: MECHANICAL

KENNY A. McCLURE, P.E., CFEI
EDT Engineers, P.C.
Post Office Box 481090
Charlotte, North Carolina 28269
kamclure@edtengineers.com
704-523-2520

EDUCATION:

- 2005 Master of Science in Mechanical Engineering
University of North Carolina at Charlotte, Charlotte, North Carolina
- 1999 Bachelor of Science in Engineering Technology
University of North Carolina at Charlotte, Charlotte, North Carolina
- 1993 Associate of Applied Science in Mechanical Engineering Technology
Gaston College, Dallas, North Carolina

EXPERIENCE:

March 2007 **Engineering Design & Testing Corp./EDT Engineers, P.C.**
to Present **Charlotte, North Carolina**

Consulting Engineer. Specialized consulting in the reconstruction of vehicle accidents involving automobiles and heavy vehicles, the mechanical evaluation of hydraulic and pneumatic braking systems, and the analysis of occupant dynamics. Analyses include accident investigation, acceleration and deceleration of vehicles, failure analysis of vehicle components, analysis of collision speed, and motion analysis of vehicles and occupants. Trained in recovery and interpretation of data from a vehicle's event data recorder.

In addition, experience includes testing and evaluation of mechanical equipment, analysis of machinery, and evaluation of HVAC equipment including scope of damage and cost estimates for repairs. Specialized evaluation of damage including origin and cause of fires.

May 1977 **Gibson Machine Company**
to March 2007 **Dallas, North Carolina**

Director of Engineering (May 2003-March 2007). Experience in maintaining and improving manufacturing processes. Responsibilities

included design of fixtures for machining, grinding and welding operations. Developed technical drawings for these designs. Duties included purchasing and testing prototype tooling. Performed time studies of existing machining process. Coordinated routing process to improve material flow through facility.

Plant Engineer (June 1993 – May 2003). Experienced in machine tool purchase and installation projects. Assisted repair technicians in the maintenance of machine tool drive and positioning systems. Assembled custom machinery for the corrugated paper industry. Worked with customer's engineering department on revisions, drawings and repairs for new and existing machines. Developed safety program to comply with OSHA guidelines and requirements. Obtained certification as instructor for forklift operator training program.

CNC Machinist (May 1981 – June 1993). Operated computer numerically controlled (CNC) machining centers. Manufactured drive-train and suspension components for trucks, buses and transportation industry.

Machine Operator (May 1977 to May 1981). Operated manual and numerically controlled lathes, drill presses and milling machines. Experienced in reading micrometers, calipers and related inspection gages. Performed inspection of machined parts using coordinate measuring machines.

PROFESSIONAL ORGANIZATIONS:

Society of Automotive Engineers (SAE)
National Association of Professional Accident Reconstruction Specialists (NAPARS)
Society of Manufacturing Engineers (SME)
American Society of Mechanical Engineers (ASME)
American Society for Materials (ASM International)
National Association of Fire Investigators (NAFI)

REGISTRATION:

Registered Professional Engineer in North Carolina (#032010)
Registered Professional Engineer in Tennessee (#00112222)
Registered Professional Engineer in West Virginia (#18619)
Registered Professional Engineer in Georgia (#036486)
Registered Professional Engineer in Virginia (#0402044128)
Registered Professional Engineer in South Carolina (#34414)
NAFI Certified Fire and Explosion Investigator (CFEI#18342-10130)
NAFI Certified Vehicle Fire Investigator (CFEI#18342-10130V)

CONTINUING EDUCATION:

“Traffic Accident Reconstruction I,” Northwestern University, Evanston, Illinois

“Air Brake Systems Training Program,” Bendix

“Principles of Failure Analysis,” ASM International

“Confined Space Training,” South Carolina Chapter of the National Safety Council

“Metallurgy for the Non Metallurgist,” ASM International

“Human Factors and Driver Response – An Overview of the State of the Art,” authored by John R. Liechty, P.E., Engineering Design & Testing Corp. Birmingham Office

“Vehicle Dynamics for Passenger Cars and Light Duty Trucks,” SAE International

“Introduction to Brake Control Systems,” SAE International

“Event Data Recorder Use in Traffic Crash Reconstruction,” Ruth Consulting

“Advanced Crash Reconstruction Utilizing Human Factors Research,” Northwestern University Center for Public Safety

“Commercial Vehicle Braking Systems,” SAE International

“National Fire, Arson, & Explosion Investigation Training Program,” National Association of Fire Investigators

“Fire Investigator Safety, Hazard and Risk Assessment,” International Association of Fire Investigators

“Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar,” National Association of Fire Investigators

NFPA 25 - “Inspection Testing and Maintenance of Water Based Fire Protection Systems,” National Fire Protection Association