

ENGINEER: MECHANICAL

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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
to Present

Engineering Design & Testing Corp.
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. Provide data recovery from sensing and diagnostic modules.

May 1977
to March 2007

Gibson Machine Company
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)

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)

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