



Applied Materials Technologies Inc.

A professional design and engineering firm

**CHARLES A. "CHIP" ROACH
SENIOR CONSULTANT**

carassociates@yahoo.com

Mr. Roach is a Senior Consultant at Applied Materials Technologies Inc. (AMTI) and is currently President of CAR & Associates, Inc. He is a Professional Engineer in Mechanical Engineering, with 22 years of experience. He specializes in vehicular accident reconstruction and dynamics, mechanical systems, heavy equipment, slip and fall hazards, refineries and natural gas and propane facilities.

Prior to joining CAR & Associates, Inc., Mr. Roach served as a pilot and Aircraft Commander in the U.S. Navy and later a line pilot for several commercial airlines where he flew ATR-42, Boeing 737, 757 and 767 aircraft. He served as a Safety Officer responsible for compliance with flight, maintenance, and OSHA standards and procedures. He is experienced in QA/QC and as a test pilot during aircraft maintenance procedures and inspections.

Mr. Roach later joined CAR & Associates, Inc., where he specializes in matters involving automotive, refineries, fires and heavy equipment. His projects included significant exposure to traffic accident reconstruction, mechanical failure analysis, fires and explosions and slip and fall hazards, as they relate to Automotive and Heavy Machinery projects. He has provided professional assistance to defense and plaintiff parties in civil litigation and has qualified as an expert in accident reconstruction, vehicle dynamics, forensic failure analysis and slip and fall hazards in State Courts throughout the Southeast United States.

Areas of Specialization

Automotive accident reconstruction

Vehicle dynamics

Heavy equipment

Refineries

Fires and explosions

Slip and fall hazards

Education

B.S., Mechanical Engineering

Georgia Institute of Technology, Atlanta, Georgia, 1989

Licensed Professional Engineer (P.E.)

TX (97476)

Mr. Charles A. “Chip” Roach

Professional Affiliations

American Society of Mechanical Engineers
Society of Automotive Engineers

Additional Education

Commissioned in the U.S. Navy through Navy ROTC Scholarship program
Traffic Accident Reconstruction - Northwestern University Center for Public Safety
Heavy Vehicle Crash Reconstruction – Northwestern University Center for Public Safety
“Special Problems in Traffic Crash Reconstruction”, Institute of Police Technology and Management
Crash Data Retrieval System Operator’s Certification Course
Public Agency Training Council Vehicle Fire Investigation Course
40-hour Hazwoper Training, 29 CFR 1910.120

Positions Held

Applied Materials Technologies Inc., Naperville, Illinois
Senior Consultant 2011

CAR & Associates, Inc., Humble, TX
Consultant, 04/10-Present

Engineering Systems Inc., Houston, TX
Consultant, 01/07 – 04/10
Staff Engineer, 01/03 – 01/07

Delta Air Lines, New York City, NY
Boeing 737/757/767 Line Pilot, 05/01 – Present

Continental Express Airlines, Bangor, ME , and Houston, TX
ATR-42/72 Line Pilot, 05/98 - 05/01

United States Navy, various locations
Naval Aviator, Operations/Safety Officer, 11/89 – 07/98

