

Chip Stranahan

Senior Consultant



As a Senior Consultant with the Railroad Practice Group of Engineering Systems Inc. (ESI), Mr. Stranahan is responsible for train operations assessments and railroad accident investigation analyses.

Mr. Stranahan's expertise includes train derailment and crossing accident investigations, evaluation of train handling issues, injury claims, computer simulation modeling, testing, instrumentation, and data analysis. Additionally, he utilizes computer simulation programs for calculating train braking capabilities, fuel consumption, running time evaluations, and tonnage rating studies. His on-site field projects have often involved accident investigation and railcar and trackside instrumentation, testing, and data acquisition. Additional duties have included report preparation and review, cost estimation/proposal development, and marketing.

Before joining ESI, Mr. Stranahan managed the Physical Testing Laboratory for a major engineering firm in Atlanta, GA which tested products and materials primarily utilizing destructive testing techniques. His responsibilities included the daily management of projects and personnel within the Physical Testing Laboratory, the custom design of unique or specialized testing programs, products and materials testing, quality assurance, market forecasting, and business development. Additional responsibilities encompassed the preparation of training and procedures manuals, personnel training, and equipment calibration and purchasing.

Positions Held

Engineering Systems Inc., Peachtree Corners, Georgia

- Senior Consultant

TÜV Rheinland Mobility, Inc. Rail Sciences Division, Tucker, Georgia

- Director Operations Analysis

Law Engineering, Atlanta, Georgia

- Manager, Physical Testing Laboratory

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Education

M.S., Physics, University of
Louisville, Louisville, KY

B.A., Physics, Coe College, Cedar
Rapids, IA

Areas of Specialization

Railroad Accident Investigation /
Derailment Cause Determination

Train Make-Up and Locomotive
Placement Evaluations

Event Recorder Analysis

Railroad Operating Rule
Development

Train Stopping Distance
Calculations