

FORENSIC ENGINEERING

Analysis Report Presentation Deposition Trial Testimony



Alan D. Black, PE, CSP, CFI-A **Principal adbForensics, Inc.**

Certified Safety Professional
Registered Professional Engineer
MS, Operations Research, Stanford
BS, Mechanical Engineering, SJSU

Areas of Specialization:

Theme Park Accidents
Athletic Entertainment Accidents
Vision and Night Visibility
Safety Analysis
Weather and Visibility
Training and Documentation

Example Cases:

Zipline injuries
Trampoline Court injuries
Theme Park Ride failure analysis
Juvenile assault
CO poisoning source tracing
Construction equipment injury
Bicycle crash energy analysis
Industrial operation safety analysis

Mr. Black performs forensic engineering of accidents and assessments of existing conditions to evaluate product deficiencies, process problems and human error.

Analyses can range from the straightforward such as safety analysis, hazard mitigation, and human factors assessment to the more complex tools of fault tree analysis (FTA) or failure modes and effects analysis (FMEA). Results are presented verbally, in a Rule 26 style report, as a PowerPoint presentation or as court room testimony as requested by the client.

Mr. Black has been performing forensic engineering since 2007.

Immediately preceding, Mr. Black spent 18 years working as a Principal Engineer and Director for both Walt Disney Imagineering and Universal Creative dealing with the advanced design of ride, show and stunt equipment for theme parks and resorts worldwide. Mr. Black's many roles have included development of an international theme park safety program including attraction analysis, field implementation and risk assessment.

Prior to his engagement in entertainment, Alan worked for 6 years developing Head-Up, Head-Down and Helmet-Mounted displays for the high stress environment the fighter aircraft cockpit for the Advanced Systems group of Kaiser Aerospace.

Alan is a seaplane rated commercial pilot, certified flight instructor and FAA Safety Team representative and services provider.