ROGER L. BOYELL
FORENSIC ANALYST (ELECTRONICS)

416 Parry Drive
Moorestown, New Jersey 08057-2877
(856) 234-5800 Fax (856) 234-9539
E-Mail: boyell@ieee.org Web Site: www.boyell.com

EXPERTISE IN ELECTRONIC CONTROL AND COMMUNICATION SYSTEMS

Mission Statement

WHEN ELECTRICAL DEVICES AND ELECTRONIC SYSTEMS ARE THE SUBJECT OF
CIVIL LITIGATION, CRIMINAL CHARGES, OR INSURANCE CLAIMS ("FORENSIC" MATTERS),
I SUPPORT LAWYERS, JUDGES AND ADJUSTERS
WITH EXTENSIVE TECHNICAL KNOWLEDGE AND WITH SCIENTIFIC DISCIPLINE
TO EXPLORE, EXAMINE AND EXPLAIN THE ISSUES INVOLVED ("ANALYSIS" TASKS).

Technical Background

My technical background includes study and hands-on experience in building and maintaining **electrical devices and electronic systems** such as: remote control devices, security and alarm systems, wireless microphones, signal distribution panels, carrier-current transmitters, sound and public address systems, computer and data processing equipment, radio and television equipment, automotive electronics, tape recorders, radar and lidar, cellular telephones and video surveillance devices.

Forensic Experience

I have contributed to a variety of legal matters based on **electrical and electronic technology** including: electric shock, lightning damage, defective electrical wiring, surveillance monitoring, disputed recording tapes, acoustical audibility, radio broadcasting interference, traffic radar, voice recognition, electronic circuits, accident reconstruction, telephone communication and automobile engine electronic control. I provide site inspections, field measurements, laboratory analyses, test reports and technical findings, with thorough documentation of results and opinions, for civil, criminal, and insurance cases. I assemble crucial demonstrative evidence in the form of photographs, tape playbacks and equipment presentations, and I am an experienced **expert witness** in the legal forum.

Communication Skills

The best technical and analytic skills are not serviceable without effective professional communications. As an experienced **technical presenter** in the high-technology industry, I have also tried to develop the ability to articulate complex scientific constructs and convey their essence for lawyers, judges and juries. Many cases have settled without the need for a trial, as a result of my analyses highlighting the technical nexus and critical characteristics of an incident.

I have formulated and evaluated new concepts on acoustic and electronic warfare, for detection and tracking of moving vehicles, for defense against missiles and torpedoes and on computer-generated imagery. I am credited with **20 publications** in open professional technical literature, and I have written several hundred formal **technical reports** bearing government security or proprietary restrictions on their distribution.

Documentation of Credentials

- Bachelor of Electrical Engineering, University of Florida, Gainesville, FL
- Master of Science in Applied Science, Adelphi University, Long Island, NY
- Master of Business Administration, Monmouth University, Long Branch, NJ
- Senior Member: Institute of Electrical and Electronics Engineers
- Fellow, National Academy of Forensic Engineers
- Licensed Professional Engineer

Rate Structure

I charge a **uniform hourly rate,** which includes all overhead, for consultation, field examination, technical analysis, report preparation, deposition or attendance at trial. This fee applies to all authorized work on a case. Billing begins only upon work authorization. Out-of-pocket expenses are billed at actual cost. (However, expert referral services may impose their own rate structures.) For out-of-town travel I customarily charge for only **half** the time actually spent in transit.

FULL *CURRICULUM VITAE* LISTS PUBLICATIONS AND CASES WORKED, SEE WEB SITE: WWW.BOYELL.COM