

Engineering & Scientific Consulting

Greg Mimmack

Manager | Electrical Engineering and Computer Science Menlo Park

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Professional Profile

Greg Mimmack is experienced in the analysis of electronic systems and specialized testing to determine the cause of electronic failures. He has investigated incidents involving consumer electronics, computer equipment, medical devices, machining equipment, automotive modules, and discrete devices to determine the root cause of failures.

Mr. Mimmack is experienced in the analysis of electrical equipment alleged to have caused fires and investigations of incidents of electrocution and electrical shock. He has also evaluated new products to identify potential functional and safety issues as well as verify standards compliance. He has provided practical recommendations to address design and manufacturing issues identified as the result of analysis.

Academic Credentials & Professional Honors

B.S., Electrical Engineering, San Jose State University, 1995

Prior Experience

Program Director Electronics Engineering Technology, and Biomedical Technology, DTCC, 1999-2019

Associate, Electrical Practice, Exponent, Inc 1996-1999

Publications

Loud JD, Blanchard RA, Mimmack G. Electronic Failure Analysis Handbook. Chapters 14 and 18, McGraw Hill, January 1999.

Project Experience

Numerous investigations to determine the root cause of printed circuit board failures resulting in propagating damage to the board and connected equipment.

Analysis of manufacturing defects in electronic assemblies and recommendation of corrective action to prevent these problems.

Investigation of inverter shutdown in a three-phase solar photovoltaic system.

Automated long-term vibration and temperature cycle testing to identify failures in electronic ignition modules.

Investigation to determine the cause of an electrocution in a swimming pool.

Investigation of train controller failures in a commuter rail system.

Analysis to determine the cause of implantable cardioverter defibrillator failures.

Investigation of failures in automotive repair equipment.

Investigation of the cause and origin of a fire related to electrical discharge machining equipment.