

GEORGE M. TECHNO

Address • Town, State • Phone • Email@email.com

Electronics Quality Engineer ~ R&D Technician ~ Product Specialist

"We've got a rare gift with George." – Vice President of Engineering at Company

Consistently provide testing and test-related solutions, which **significantly improve the bottom line** and **enable key products to go to market at high levels**. Formally educated as an engineer; deeply experienced in lab and field.

- Establish competitive advantages of product lines through testing. Help promote new products as a product specialist. **Briefed an international audience** in accepting an entirely new product and becoming a leader in its adoption and use.
- Aggressive achiever oriented to rapid and thorough completion of tasks and projects. Poised and confident.
- Excellent communication and interpersonal relations skills. Establish and maintain rapport with all levels of staff and management. Diversity sensitive. Effective supervisor and trainer. Strong administrative abilities.

Technical Summary

Hardware	Digital Multimeter, HP Network Analyzer, HP Spectrum Analyzer, Oscilloscope, Boonton 4300 Power Meter, Tektronix CSA803 Signal Analyzer, Opto-Electronic Fiber Optic Mainframe, OTDR, Slo-Syn PLC, Compumotor PLC
Programming Languages	LabVIEW, Oracle 9i SQL PL / SWL, MS Visual Basic
Software	Crystal Report Writing, MS Project / Word / Excel / Access, FrontPage, SQC Pack (SPC)

Experience

COMPANY, City, ST

Apr 2000 – Dec 2003

Quality Technician II / Reliability Technician

Industry: Electronic packaging. Stacking TSOP (chips). *Size:* \$900 million/year, 50 employees in Austin and 550 employees in Mexico. *Customers:* Infineon, Micron, IBM, Samsung, and Hewlett Packard.

Performed root analyses. Gathered data on variances / anomalies for engineering. Served as Special Projects Coordinator. Added Reliability Technician role; continued QA. Performed all JEDEC standardized testing and environmental parts testing. Designed access and statistical (SPC) database to store test results and monitor process within manufacturing. Created experiments. Wrote reports. Maintained a communications board to show weekly progress. Caught potential well in advance of exceeding customer tolerances so production / process engineers could make changes and adjustments.

- Setup / performed pre-conditioning, HAST, and temperature cycling, per JEDEC standards design. Wrote software to automate two Stack TSOP manufacturing processes. Designed / wrote operating procedures for database and software.
- Trained and supervised three QA technicians at level I.
- Programmed Microsoft Excel to analyze the data from the Optical Comparator. This allowed two personnel to receive a promotion into the Auditor position, as they were no longer required in the Incoming department.
- Designed SPC database. Monitored all process and plant equipment. Decreased contamination level to parts using SPC process from 20ug / sqin to 7ug / sqin.
- Wrote software to automate production equipment process. Designed QA Technicians database.
- Determined / confirmed that a delaminating process defect was only cosmetics and did not impact performance. Eliminated unnecessary inspections.
- Confirmed need for an ERP / MES system, leading to a cost-effective plant automation at two locations.

COMPANY, City, ST

Feb 1996 – Mar 2000

Owner / Field Service Engineer / Product Specialist

Industry: New packaging for circuit boards and optical equipment. Electronic instrumentation / instrument prototyping. *Customers:* Harris Semiconductor, Motorola, IBM, Infineon, and Horiba, a global leader in analytical and measurement technology for semiconductors, automotive, engine measurement, testing, and emissions.

Oversaw all functions for company. Created and negotiated installation / maintenance contracts. Designed / maintained contracts database. Hired temporary personnel. Developed marketing strategy and company website. Trained customer engineers / technicians on operation of equipment and preventative maintenance.

- Repaired equipment and designed software for chemical monitoring instrumentation (Horiba CM-210, CS-220) used in semiconductor plants. Utilized LabVIEW Software to make the Horiba CM-210 hydrochloric acid monitor more user friendly. Horiba bought rights and **made resulting new product part of its product line**. Provided electronic / optical testing for Horiba equipment that **guaranteed tolerances to within 0.001%** for measurement of chemical bacteria.
- Installed, assembled, and tested RF instruments / equipment up to 20GHz. Wrote preventative maintenance and installation contracts. Served as customer / tech service contact and product specialist. Performed repairs on-site for all Horiba equipment. Installed and trained customers in use of EMI / EMS equipment (amplifiers, antennas and cameras). Delivered technical briefings to engineers on the capabilities of equipment. Installed the first multiple EMI / EMS chamber in Europe (Barcelona Spain), and made presentation for its first use in Europe.
- Installed / calibrated Horiba CM-210 / CM-220 equipment in semiconductor plants. Installed EMI / EMS equipment used to measure interference and susceptibility up to 40GHz. Designed / negotiated installation / maintenance contracts.
- Supervised and trained one permanent employee, contracted up to three additional staff as needed for installations.

COMPANY, City, ST
Sr. Electronic Technician

May 1995 – Feb 1996

Industry: Optical equipment and optical measurement equipment. *Size:* 15 employees, \$2 million/year. *Customers:* US Military (Army, Navy, Air Force) and US Environmental Protection Agency.

Wrote / designed procedures for test equipment using LabVIEW software / equipment (wavelengths 600nm to 780nm).

- Modified a LabVIEW virtual instrumentation software program. Converted a desktop computer into a spectrum analyzer, which **increased software efficiency by 10%**.

COMPANY, City, ST
Engineering Technician

May 1990 – May 1995

Industry: Wire & harness, high frequency cable, and custom design cables. *Size:* 2,000 employees, \$1+ billion/year. *Customers:* NASA, IBM, Siemens, Eddie Bauer, and Applied Materials.

Wrote / designed test procedures for test equipment e.g., velocity impedance, time skew / time of flight measurements for fiber optic cables (wavelength 625nm to 1550nm). Designed and wrote program for determining the life cycle of cabling in specific applications. Maintained all flex machinery. Built test circuits and breadboards for engineers.

- Wrote / designed / performed all experimental testing / equipment layout for new cabling product. Demonstrated greater noise shielding effectiveness over competitors. New product sold 200 units at \$95,000 each in its first six months.
- Created / conducted all experimental testing and equipment layout for another new product, which became the third largest seller in the Gore product line at \$1+ million/year.
- Designed new software programs / equipment for life cycle testing of cabling in customer environments, instrumental in 95% of all cable sales. This cost justified higher priced Gore cables, enabling **entry** into the **automotive industry**.
- Determined and corrected cause of signal loss in the Texas Instruments TI Manpack Connector, which led to Gore securing exclusive sales and distribution rights for this product from TI.

Education & Training ~ Military Service ~ Affiliation

Renshaw's College, Belfast, Ireland, and Cyprus – Distance Learning Program, February 2004

BS, Engineering, GPA: 3.8

Statistics, Electronics & Instrumentation, Electronic Packaging Systems I, Statistical Methods for P&P Development.

Southwest School of Electronics (SOUTHWEST INSTITUTE OF TECHNOLOGY), Austin, TX, 1990

Associate of Occupational Studies / Electronic Technology, GPA: 4.0 / Honor Graduate

Robotics, fiber optics, microprocessors, technical and digital mathematics; technical report writing; AC / DC principles and fabrication, NARTE Certification Class III, Statistical Process Control (SPC).

City Community College, Austin, TX, 1990 to 1991

Statistical process control, pre-calculus, calculus I, basic digital logic, pulse digital logic.

United States Army: Hawk Missile Crew (Radar Technician), Personnel Manager, Club Manager. Staff Sergeant E-6; E-7 list.

NARTE (National Association of Radio and Telecommunications Engineers) Certification Class III.