

Kenneth Roberts

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Desire a Challenging Position in Technical Leadership

Established and maintained a world-class automotive development test facility. Proven expertise in the design, implementation and support of dynamic test systems. Knowledgeable in a broad range of technologies related to system and component testing, in addition to technical leadership capacity.

Summary of Qualifications

34 years of Development Test Engineering Experience.

Excellent ability to establish and maintain effective working relationships with customers, direct reports, support departments, vendors, and contractors.

Great inter-personal skills. Comfortable working effectively both independently and in a team environment. Remarkable ability to organize, prioritize, and delegate effectively.

Proficient at root cause analysis investigations and the development of countermeasures.

Knowledge of 2D and 3D mechanical drafting techniques and the use of AutoCAD and IDEAS software.

Expert in the use of Dynamic Signal Analysis equipment in the acquisition and analysis of data and in conducting experimental noise and vibration investigations in support of vehicle development.

Professional Experience

CalsonicKansei NorthAmerica (CKNA), Shelbyville, TN 1986 – March 2018

Development Test Engineer & Test Lab Supervisor

Expanded Vehicle NVH capability by implementing a mobile test operation & maintained vehicle test fleet at a remote site. Developed Subjective Evaluation matrix & coordinated vehicle evaluations.

Establish and implement test plans to support automotive exhaust product development. Work with suppliers and customers to design, evaluate, troubleshoot and improve components and systems.

Formulate benchmarking and market study strategy. Plan, monitor and report on outsourced activities.

Supervised Test Lab staff. Established priorities for direct reports and coordinated skills improvement.

Planned, monitored and reported on both operating and capital budgets for assigned group.

Represented CKNA's interest to facilitate global lab coordination. Helped resolve issues regarding data transfer, data management, as well as promoted the globalization of tools and processes.

Active internal auditor. Have been trained as an auditor for TS16949, QS9000 and ISO9000. Part of implementation team for certification of multiple lab locations in North America.

Designed and implemented Test Cells to investigate field failures. Data acquisition systems with Microsoft Visual Basic, Excel, National Instruments LabView, Daytronic and LMS (Siemens) utilized.

Established a Metallurgical lab with an emphasis on failure analysis and a stand-alone Calibration lab.

Developed training programs on Exhaust Design, Data Acquisition (Sensors, Connections & Analysis), NVH, Strain Gage Technology and Stress Analysis and instructed series of classes for staff.

Designed and installed a Legal Noise Pass-by Test site. System installation consisted of acoustic and multiple data acquisition sites connected by telemetry. Project was correlated with customer sites.

Developed schematics, ordered components and completed installation of control and data acquisition systems for two low speed wind tunnels.

Square D, Smyrna, TN 1984 - 1986

Designer - Prepared layout drawings for custom order low and medium voltage switchgear.

Lochinvar, Nashville, TN 1984

Technician - Assembled and performed verification testing on prototype commercial water heaters.

Education

Middle Tennessee State University, Murfreesboro, TN

Mechanical Engineering (on hold) Maintaining a grade point average of 3.6 (senior classification)

Nashville State Technical Institute, Nashville, TN

Associate of Science in Mechanical Engineering (1984) Graduated with a grade point average of 3.6