

## ***Introduction***



*TMSI corporate offices are conveniently located in Northeast Ohio, for easy access to transportation and Industry. Please contact us at 150 Springside Drive, Suite A100, Akron, OH 44333, U.S.A. or call (330)668-2010.*

**Founded** in 1991, Test Measurement Systems, Inc., (**TMSI**) specializes in performing and/or assisting in the needs-evaluation, design, commercial hardware /software evaluation, equipment selection, procurement, installation and commissioning of Custom-Designed Scientific & Test Engineering Systems. These include Data Acquisition/Control Systems as well as Test Fixturing, Loading Frames and Actuators. The company offers creativity and state-of-the-art expertise for the development of unique new custom tailored solutions to industrial problems and R&D projects. **TMSI** relates to the client by working to prescribe and provide an optimal selection from the offerings of all test equipment manufacturers to meet their testing requirements.

**TMSI** employs scientists and engineers of various skill levels (B.S., M.S., and Ph.D.) to offer hi-tech expertise in the areas of software, machine, and electronics design, test automation, analytical data studies, and vibration analyses of systems. The company provides highly specialized solutions to industrial problems each year. The demand for such low-volume highly-specialized products creates a niche market that **TMSI** is uniquely equipped to serve comfortably and in a timely manner.

**TMSI** is an integrator of scientific data systems with skills required to perform all the functions beginning with transducer selection and applications and continuing through all stages of analog signal conditioning, digital data sampling, transmission into computer data bases, all levels of data processing, data basing of results, and printing of finished tabular and graphical data for reports.

**As a Systems Integrator, TMSI** stands apart from machine equipment manufacturers in providing a financially independent view of commercially available systems and equipment, since it is not **TMSI's** main purpose to manufacture such equipment. **TMSI** is in the unique position of being able to evaluate and select from a number of data acquisition and test system products to best fit the given requirements, even though these may not all be manufactured by the same hardware supplier. Being a systems integrator means that **TMSI** must add value to the hardware products provided by their manufacturers. We do this in two ways:

**TMSI** produces applications software that exactly fits the customer's needs -- both current, and upgradable into the future.

**TMSI** provides systems services to assure proper application of the data system and ongoing

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maintenance to assure continued conformance to the specified requirements.

This requires that **TMSI** be on a constant lookout for new developments in hardware and software technology and be able to implement such improvements into the data systems that we provide. As a consequence, **TMSI** provides an independent eye for and source of information on latest hardware and software developments in the scientific data system world.

Application-Optimized Up-and-Running Systems, selected from an industry-wide cross-section of available equipment and software choices, are **TMSI's** goal considering technical requirements and available budget. Only when necessary does the company develop and manufacture software or transition or interface circuits in order to provide required features that are not commercially available or to connect necessary, but incompatible, system components.

**TMSI** services extend far beyond the installation of a finished system. Full documentation is retained at our offices to be used for field support via telephone, or on-site, as required. We also provide a 24-hour per day software user's bulletin board and World Wide Web site with question/answer support within 24 hours, or for porting data files directly to, or from, **TMSI** for instant clarification and interpretation.

**TMSI** endeavors to provide services of the highest quality and associates itself with clients who endeavor to, likewise, provide their customers and clients with products and services that are leaders in their respective industries. If your integration and software needs and our mutual goals align, please call to discuss your project with our team of Professionals!



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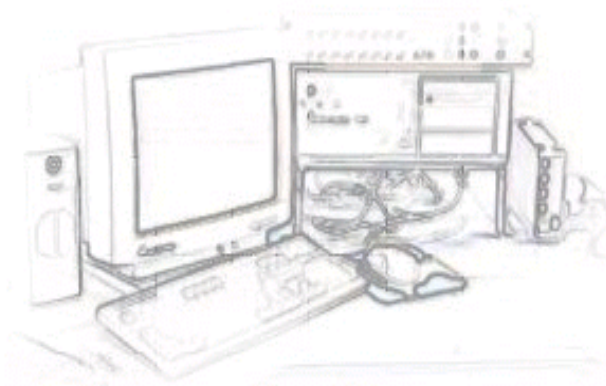
## ***Outlook***

The future holds many advances in the fields of computer control, testing, data acquisition, and analysis; with these advances more sophisticated testing and analysis techniques will be developed and implemented. **TMSI** will be a front runner in this market by acquiring and training bright and knowledgeable experts from a wide range of scientific and technical fields.

Future possibilities at **TMSI** range widely, including single computer systems configured to interface: “smart” hardware and software; advanced control and acquisition systems for multiple test laboratories; analysis packages including advanced statistical analyses and neural net interpolation tools; collective data basing of results from multiple laboratories; and collaborative presentation of collective results. Advances in technology will soon allow for mass amounts of data to be acquired and analyzed, which means more rapid advances for the products you manufacture in the coming years.

Acquisition, presentation, and analysis of data are vital portions of testing systems. The need for correct interpretation and easy presentation of correctly acquired data creates the ever growing need for advanced custom hardware/software and tools. **TMSI** offers such hardware/software and tools in addition to having expertise for selecting commercially available stated-of-the-art hardware/software in a market for complete test measurement and data acquisition systems.

Today’s product improvements tend to be evolutionary rather than revolutionary, meaning that performance improvements occur incrementally. Product performance may be incrementally optimized only by making precision test measurements. Cascading a number of such improvements can then produce significant changes in your product. **TMSI** features the ability and technology to allow you to take the next step into the future.



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## ***Consulting Services***

The final endeavor pursued by **TMSI** is in the area of consulting. Complementing our knowledge in test measurement and data acquisition systems, **TMSI**'s staff is built of professionals from various fields and disciplines. Our expertise extends to *general mechanics, tire mechanics, vehicle dynamics, vibrations, systems analysis, customized user interfaces, data acquisition/control & analysis programming, neural networks in pattern recognition & data analysis, small volume electronics in signal processing & test systems control, and test systems integration*. **TMSI** employees remain on the cutting-edge of technology by designing, implementing, and using state-of-the-art equipment and processes which enables us to assist our clients in efficiently moving into the future.

Our consulting services go beyond just recommending and implementing the most advanced technology in these fields. **TMSI** evaluates the tasks and needs of the customer and recommends solutions by using the range of available technology to best realize the desired results. Not only do the processes and systems best fit the current task, **TMSI** analyzes possible future uses and upgradability for the system based on possible breakthroughs and/or trends in current technologies. These future-adaptable solutions allow our customers to remain ahead of their competitors and make easy transitions in an ever-changing market.

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