

COMPANY

PROFILE





ABOUT US

The RESONATE SYSTEMS team works collaboratively with clients to deliver projects and solutions that give insights into the physical world.

We apply agile project management methods to ensure our clients' expectations on time, cost and requirements are met.

Our approach and philosophy has enabled us to successfully apply our skills and expertise across a number of diverse industries and projects, including Rail, Defence, Infrastructure, Research, Agriculture and Manufacturing.

To complement our offering, we work with local and international partners to integrate appropriate technologies into our projects and solutions.



**WE PARTNER WITH CLIENTS
TO DELIVER INSIGHTS
INTO THE PHYSICAL WORLD**

Photo Credit: NASA/Chris Gunn

WHAT WE DO



INTELLIGENT MEASUREMENT & CONTROL SYSTEMS

RESONATE SYSTEMS specialises in the design and build of systems tailored to our client's application needs and project objectives.



MONITORING

The RESONATE SYSTEMS team delivers a wide range of monitoring solutions that support our client's data driven decisions.



TEST SYSTEMS

RESONATE SYSTEMS values successful project outcomes that can only be delivered with a thorough test & evaluation program. We have the experience and tools to support our clients at every step.



DATA ANALYTICS

With extensive experience in the analysis of complex signals and large data sets, RESONATE SYSTEMS is well placed to bring a structured approach to client's data



TECHNICAL SOFTWARE

RESONATE SYSTEMS works with our clients to intelligently transform complex technical challenges into quality software solutions



SUPPORTING THE AUSTRALIAN SPACE INDUSTRY

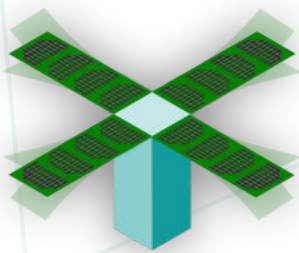
With expertise in the design and integration of advanced test & measurement and analysis solutions, RESONATE SYSTEMS can support the Space Industry at various stages of launch vehicle and payload development.

- Laboratory and field based data acquisition systems
- Systems and sub-systems automated testing
- Production test systems
- Integration of bespoke test and evaluation systems
- Structural measurement and analysis systems
- Vibration qualification test systems
- Bespoke engineering data analytics
- Technical software development

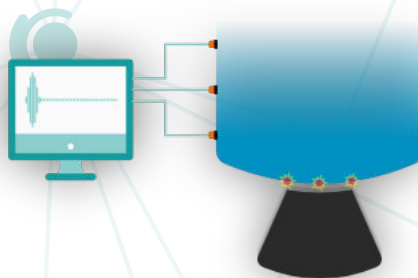
QUALIFICATION TESTING

RESONATE SYSTEMS provides qualification testing bespoke measurement and control systems including turn-key vibration and shock testing systems.

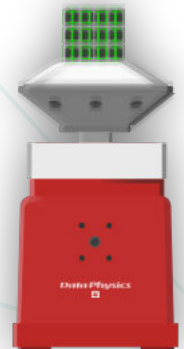
- Low and high channel count data acquisition systems (including high-speed systems suitable for pyro-shock testing)
- Structural measurement systems (strain, vibration, displacement)
- Experimental Modal Analysis (EMA) systems
- Electrodynamic and Electrohydraulic vibration test systems



Structural Measurements



Pyroshock Measurements



Vibration & Shock Qualification Testing

R&D INFRASTRUCTURE

The team at Resonate Systems has extensive experience supporting R&D programs for all scales of organisations from Start-Up to Defence Primes. We can assist with:

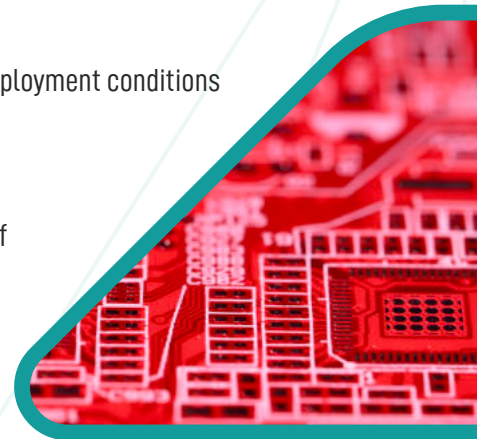
- Test and measurement automation
- Data Analytics and management
- Test program design
- R&D project management
- TRL Assessment and roadmapping
- Technical software and hardware solutions

AUTOMATED TESTING

RESONATE SYSTEMS provides test systems for all stages of the product development life cycle, from engineering and prototype testing, through accelerated life testing and end-of-line production tests.

We develop and integrate:

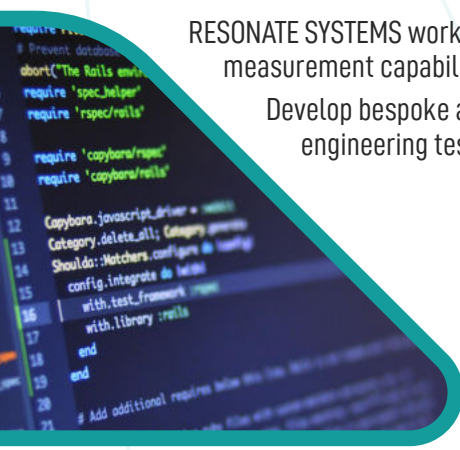
- Hardware simulators with multi-channel digital and analogue IO to simulate the final deployment conditions in a safe and controlled environment.
- Solutions that increase test throughput by integrating multiple systems into a single automated test sequence.
- Test Systems that replicate a range of real-world vibration conditions through the use of dynamic shaker control systems coupled with vibration sensors to capture and assess system performance.
- Solutions to capture and analyse test data that drive informed design and production improvements.



TECHNICAL SOFTWARE

RESONATE SYSTEMS works closely with clients to understand and extract key application requirements, including test and measurement capabilities, and features for user interface and interaction.

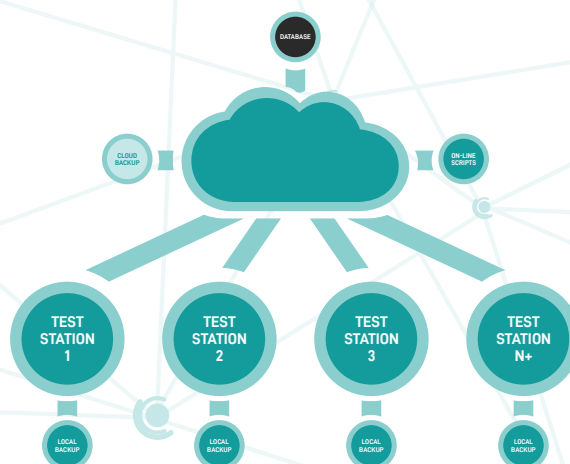
Develop bespoke applications for multiple stages of product testing, from highly customisable and data heavy engineering tests, to streamlined production focussed systems that show only the most relevant information.



TEST DATA MANAGEMENT

Test & Evaluation creates vast amounts of data. RESONATE SYSTEMS can assist with creating a data management structure tailored to the scale of your program.

We specialise in creating modular interfaces and wrappers to a wide variety of test hardware and data sources. By maintaining our focus on the end user interactions we hide complexity and expose flexibility as much as possible.





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