



TELEMETRY GROUND STATION AND ELECTRONICS LABORATORY

LABORATORY INFORMATION FACT SHEET

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The Telemetry Ground Station and Electronics Laboratory is a fully equipped facility providing the capability to support electronic product development from highly complex weapon system sensors, mine electronics and electronic warfare equipment to simple electronic devices.

TECHNOLOGY/FACILITY DESCRIPTION:

Experienced laboratory personnel provide design, fabrication, test, evaluation, troubleshooting and failure analysis assistance for any type of electronic system, subsystem

or component. In addition to a full complement of instrumentation, environmental test equipment and a prototype machine shop, the laboratory has a variety of software for design, simulation and analysis of electronic circuits through the media of computer aided design/engineering (CAD/CAE). The laboratory and its personnel are an ideal source of electronic "know how" for small and medium businesses seeking assistance in electronic product development.



EQUIPMENT AND EXPERTISE AVAILABLE:

- Standard lab equipment
- Analog and digital test equipment
- Radio frequency (RF) (3Ghz+) receivers, spectrum analyzers, network analyzers
- Design, fabrication and testing of prototype circuits for new or improved products
- Troubleshooting and evaluation of existing electronic circuits and equipment using specially designed test circuits and test fixtures
- Stress testing of electronic assemblies over temperature and set-back acceleration
- High G survivability of electronic circuits and systems
- Failure analysis of items in development or production to determine the precise cause of the failure and recommended solution
- Reverse engineering of products to provide valuable insight into how a competitive product functions
- Analysis and optimization of performance resulting from component or circuit modification
- DC to RF design, analysis and simulation
- Use of Application Specific Integrated Circuits (ASIC) to reduce product cost and improve performance
- Tolerance analysis, environmental tests and other problem prevention means