

# ATG ADVANCED TECHNICAL GROUP

Advanced Technical Group (ATG) is an ISO 9001:2000 Certified Electronics/Software Engineering and Manufacturing Solutions Provider. Our core team of Engineers average over 20 years of experience in their respective field of expertise. ATG delivers innovative solutions to complex technical challenges with very high customer satisfaction. Our project management team works closely with customers to define the results that are needed for the complete success of the project.

ATG offers turn-key solutions as well as consulting and development services to complement our customer's team in:



## ***Software Engineering Services***

Complete life-cycle from software requirements to software development, testing, verification, certification (including Software Quality Assurance). In addition to our embedded and applications solutions for the Avionics and Telecommunications industries, we have extensive database applications realization in the legal, financial/banking industries (SQL, Informix, Oracle). For instance, ATG's own Accounting/Inventory Control IBMA Tool (Integrated Business Management Application) was developed using SQL and Visual .NET 2005.

## ***Electronics Engineering Services***

Comprehensive capability to provide integrated solutions in all the following areas – this coupled with our customer focused project management approach has ensured ATG continued growth and returning customers (System Requirements, Software Requirements, Mechanical Design and Build, RF/Microwave Design, Digital/Analog Design, Embedded and Application Software Development, Software Validation and Verification, Environmental/EMI Testing, Certification, Product Support, and Manufacturing Integration).

## ***Test Equipment Development***

ATG develops test system solutions customized to the engineering and manufacturing customer needs. These test equipment require multiple engineering disciplines – Mechanical, RF/Microwave, Digital/Analog, Embedded Software using the latest Digital Signal Processors (DSP) and Application Software using the most advanced Windows Software methods. For example, we have designed, manufactured and delivered Commercial and Military Threat Collision and Avoidance Systems as well as Automated Test Equipment Manufacturing Solutions.

## ***Aircraft Data Converters***

When specialized interfaces between aircraft systems are required, our technical team is ready to assist. We can develop complete aircraft avionics certified system solutions – from systems requirements to mechanical packaging to all the embedded electronics. For example, some of our solutions are flying in NATO as well as the Spanish Air Force aircraft.

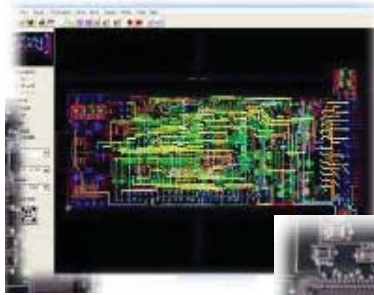
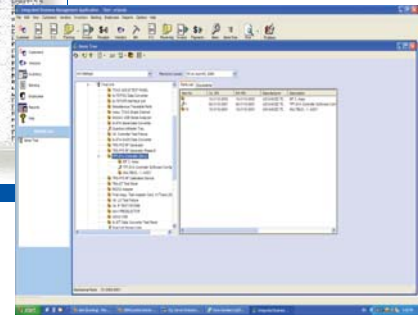
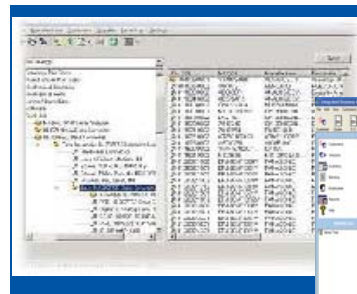
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ISO 9001-2000 Certified

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## SOFTWARE

- Windows SDK, WinSockets (TCP/UDP)
- C / C# / C++
- LabWindows, LabView, TestStand
- Embedded and Web Applications
- Database Applications - Access, SQL, Informix
- Software Verification and Validation
- System Requirements Development

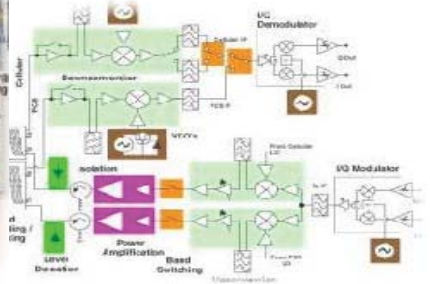


## DIGITAL/ANALOG/TEST

- Embedded Microprocessor and Microcontroller
- Programmable Logic Devices
- Schematics and Printed Circuit Board Layout
- VHDL Designs
- Digital Signal Processing
- Serial Interfaces (RS-232, RS-422, USB, ARINC 429)
- Analog Interfaces (Resolver, Synchros)
- Audio Signal Processing
- Automated Test Systems
- Test Methodology Development
- HALT/HASS Environmental Screening Development

## RF/MICROWAVE

- Receiver/Transmitter Designs to 10 GHz
- VCO, Oscillator, and Amplifier Designs
- Obsolete Parts Analysis and Replacement
- RF Simulations
- EMI/EMC Testing
- RF Test and Alignment Fixtures
- Automatic Test Setup
- RF Subassembly Test



## MECHANICAL

- Mechanical Conceptual Designs
- 3-D Modeling
- Industry Standard Pro/Engineer CAD
- Top Assembly Outlines
- Detail Drawings
- Bill of Materials
- Assembly Drawings