

ENGINEERING FEATURES

- Systems engineering
- Expert modeling and analysis
- GNC development
- Embedded software development
- Comprehensive flight test support



L-3 Communications Geneva Aerospace has assembled a set of core competencies to address the emerging requirements of the UAS and Aerospace industry. These areas of expertise drove our initial set of products and continue to lead technical advancements in the industry through development of new products and processes.

Guidance, Navigation, and Precision Control Systems.

L-3 Geneva's precision guidance, autopilot, and navigation solutions have evolved from years of practical experience and the need for cost effective control solutions for complex smart weapons and UASs. Geneva has developed a diversified collection of autonomous and semi-autonomous control solutions for unmanned vehicles, including advanced guidance and navigation, reliable autopilots, and stability augmentation systems.

Embedded Real-Time Software.

L-3 Geneva has accumulated a strong corporate history of successful UAS and missile flight tests and demonstrations with its embedded software. Geneva has established a reputation for taking software-driven systems from concept to flight demonstration on time and at a fraction of the cost of competitors. Because Geneva consistently achieves program success, customers consider Geneva among the industry's best systems integrators.

Dynamic Flight Simulation and Analysis.

L-3 Geneva provides expert modeling and analysis capabilities for multi-disciplinary flight simulation development and implementation, including complex non-linear math models, multiple independent vehicle models, and detailed hardware subcomponent models. Geneva supports integration and testing of existing simulations or adaptation of its high-fidelity engineering and six degree-of-freedom (6DOF) simulation to provide rapid analysis of complex dynamic systems.

L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, systems and subsystems. The company reported 2006 sales of \$12.5 billion.

Rapid Prototyping.

L-3 Geneva expertise with real-time technology, combined with efficient processes, accelerates prototyping and produces the actual target processor software earlier in the development cycle. Because the prototyping is completed in the target simulation environment, the final prototyping is also the final development cycle. The embedded source code is automatically generated from the integrated development tool, and then tested with the cases captured during the prototyping cycles.

System Integration.

L-3 Geneva's Objective Based Capability, total system approach makes us an ideal system integrator. We can help you determine the minimum necessary avionics and communications equipment required to make your aircraft meet and exceed, your customer's expectations. Our rapid prototyping engineering process will get you flying quickly, efficiently, and above all, safely. As the lead system integrator, Geneva boasts an excellent success rate on first flight performance.

From integration and adaptation of our core avionics products into a new vehicle to complete end-to-end unmanned systems development support, L-3 Geneva offers a full complement of engineering and related services in the design and implementation of unmanned vehicles.

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