



Control &
Communication Systems

AVISTA® Software and Systems Engineering Services

The strongest DO-178 software engineering team in the aerospace industry, with a CMMI® rating and AS9100 certification

The AVISTA software engineering team has contributed to almost every aircraft developed in the last 25 years

Leading companies in aerospace, defense, and medical electronics turn to the AVISTA team when outsourcing their safety-critical engineering. Our comprehensive, embedded software development and systems engineering services enable them to satisfy customer requirements while achieving total development cost savings.

The AVISTA team is committed to deliver only the highest quality software services, characterized by exceptional

personal support and technical expertise. We have completed more than 1,300 projects and worked on almost every aircraft developed over the last 25 years. No one else has as much experience in safety-critical software development.

With the strongest DO-178 software engineering team in the industry, we are also one of only a handful of US companies to achieve both a CMMI rating and AS9100 certification. Those world-class ratings, along with our PMI-based™ process-management approach, ensure the highest quality results for every project.

Personnel

We offer a unique combination of experienced US staff and offshore resources for a complete, cost-competitive solution. We are experienced with DO-178B/C, DO-254, ARP-4754A, and numerous Mil-Specs. Also, we offer PMP® certified program manager expertise to ease the project management burden.

Development Processes

We use high-maturity, efficient processes for system reliability, cost control, and on-time delivery. We provide the industry's most accurate project estimates, tracking, and scheduling, with real-time earned value tracking. Our detailed basis of estimate also shows how we can lower your total development costs. Finally, our dedicated, full-time SQA experts complement these mature processes for the ultimate software quality.

Services

AVISTA embedded software and system engineering experts provide full and partial life-cycle development, including systems design, requirements capture and analysis, software design and implementation, and software verification and validation. We have deep experience in safety-critical systems using traditional, model-based development, and Agile/Scrum methodologies, including:

- Flight management systems (FMS)
- Cockpit display systems (CDS)
- Engine-indicating and crew-alerting system (EICAS)
- Satellite communication systems (SATCOM)
- Aircraft navigation and communication radios
- Electric power generation and distribution
- Full-authority digital engine control (FADEC)
- Autopilot systems and flight controls
- Actuation systems
- Data concentration units (DCU)
- Air data systems
- Touchscreen control panels
- Test equipment
- Mission planning
- Central maintenance computers (CMC)
- Traffic alert and collision avoidance (TCAS)

For more information about AVISTA software and systems engineering services, call us at 608-348-8815 or email avista@esterline.com.

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