



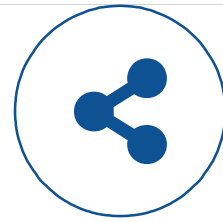
Our Services

PROVIDING CUSTOMERS TECHNICAL EXCELLENCE

Adsys Controls services include everything from electronics design, embedded RT software, and image processing to high energy laser & optical perception systems for ISR&T, weapons, communication, and navigation.



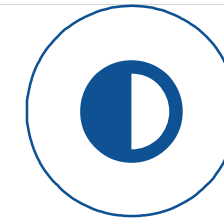
CONTROL SYSTEMS
Adsys Controls provides state of the art solutions for the most challenging problems



ELECTRONICS
Our electronics portfolio includes image processing modules, aircraft flight computers, and turn-key systems.



SOFTWARE
The most challenging software solutions.



ELECTRO-OPTICAL SOLUTIONS
We develop advanced electro-optical systems.



AUTOMATED TEST SYSTEMS
Adsys Controls develops automated test systems for commercial and military vehicle testing.

Contact us for more information!

CONTACT US

CORE CAPABILITIES

Line-of-Sight-Stabilization & Beam Control

Jitter Control
Turret Control
Adaptive Optics
Inertial Stabilization

Signal Processing

State Estimation / Kalman Filtering

Electronics

Custom electronics
Image processing platforms
High speed communications
Aircraft avionics

Mechanical Design

Vibration Isolation Systems

Signal filtering
Adaptive filters (LMS, LQR, RLS, etc.)
Phase computation
Multi-dimensional FFTs

Software

Real-time Embedded Software
C/C++, VHDL, LabVIEW, TestStand
VxWorks, GreenHills Integrity, Real-time Linux
Automated code generation

Integration, Test, & Validation

Integration support
Flight test support & analysis
Automated test systems
Unit & Life cycle testing
V&V Testing

Guidance, Navigation and Control (GNC)

Aircraft, Spacecraft, & Robotics
Requirements development
Controller Design (Classical and Modern Control Theory)
Non-linear and Linear Analysis
Stability Assessment

Gimbal Mechanisms
Opto-mechanical Systems
FEA
Thermal Analysis

Optics & Vision Systems

Optics Design & Modeling
Radiometric Analysis
Scene Generation
Image Acquisition
Image Processing
Image Stabilization

Modeling and Simulation

Dynamic System Modeling / 6DOF Simulation
Component Modeling
Algorithm Modeling
Failure scenarios to support fault detection and recovery design
Matlab/Simulink, MatrixX, and VeriStand experience

System Engineering

Requirements definition and management
ICD/Spec Development



Estimator Design
Fault analysis and design
Matlab/Simulink & MatrixX experience

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