

Advantage

- Six decades of corporate experience
 - Use Time and Frequency Domain Techniques
 - Employ Modern, Classical, Optimal, Robust, and Adaptive Control Methods
 - Conduct System Design Audits
 - C-2A, CH-53E, F-4, F-14, F/A-18, T-45, V-22
 - Recognized Industry Experts in Aircraft Handling Qualities and Pilot-Induced Oscillations
 - Developed Advanced Aeroservoelastic Analysis Methods and Modal Suppression Techniques
 - Design and Analysis of Fly-by-wire Systems
- Cutting Edge Design & Analysis Methods
 - Wavelet-based Time-varying System Analysis
 - Pilot-vehicle System Loss of Control Mitigation
 - Output-only Modal Identification
 - Active Inceptor Cueing
 - Aircraft Ground Handling



- Value proposition

Solve complex dynamic problems through a thorough understanding of the fundamental underlying physics and mathematics.

Begin with the simplest model that captures the dominant system behavior and then build up complexity as needed to capture higher order effects.

Bring comprehension of the human operator and the human-machine interface.



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SYSTEMS
TECHNOLOGY
INC.



Where complex dynamic systems
and human operators intersect.





SYSTEMS TECHNOLOGY INC.

Company History

Systems Technology, Inc. (STI) is a small employee-owned research, consulting, and product development firm located in Hawthorne, California.

Founded in 1957, STI has been devoted to the study of vehicle dynamics, control, and related human factors for nearly sixty years. STI focuses on aircraft dynamics, aerodynamics, flight control system design and analysis, handling qualities, and manual control theory.

Mission/Vision Statement

We develop engineering solutions for complex moving machines and the humans that control them, from aircraft to automobiles. Our engineering consulting services and simulation products bridge the gap between advanced engineering and human factors.



Core Competency

- Analysis of Dynamic Systems
- Flight Control System Design and Analysis
- Assessment of Handling Qualities including PIO
- Flight Test and Piloted Simulation
- Human Operator Models
- Advanced Cockpit Displays
- Aeroservoelastics
- System Identification

Emerging Technology for the Navy

There is a critical need to improve Navy aircraft shipboard recoveries in degraded visual and high sea state conditions. To address this need, STI is developing the Jet Aircraft Shipboard landing Man-machine Interface for Naval Environments (JASMINE) that combines enhanced head-up display symbology and advanced flight director modes to guide strike fighter pilots to safe carrier landings. Development risk is diminished through simulation evaluations conducted by Navy test pilots.



New guidance algorithms and display symbology leads the pilot to the desired approach and recovery. For Navy strike fighter pilots, JASMINE will reduce pilot workload and enhance safety when outside visual cues are not available under these challenging conditions. JASMINE will meet Navy objectives via a software solution that is compatible with the existing cockpit head-up display of the F/A-18E/F thereby allowing for rapid fleet integration.

Market/Customers & Collaborators

- Government Customers
 - Navy: NAVAIR, NAVSEA, ONR, NAWCTSD
 - Air Force: AFRL, AFTC, AFOSR
 - Army: ARL, AMRDEC, TARDEC
 - NASA: AFRC, ARC, GRC, JSC, LaRC
 - DOT: FAA, FHWA, NHTSA
 - DHHS: CDC, NIA, NIH, NIOSH
 - DOI: USFS
- Industry Collaborators
 - Bell Helicopter
 - The Boeing Company
 - General Atomics – Aeronautical Systems, Inc.
 - Lockheed Martin
 - Moog, Inc.
 - Northrop Grumman
 - Sikorsky
 - Textron Cessna
- International Collaborators
 - Embraer

Contract Vehicles

- SBIR/STTR
- BAA
- IDIQ
- NRA
- Commercial Consulting

