

Why Choose STI?

Six Decades of Aerospace Excellence

- Recognized Industry Experts in Aircraft Handling Qualities and Pilot-Induced Oscillations
- Conducted System Design Audits for C-2A, CH-53E, F-4, F-14, F/A-18, T-45, V-22
- Developed Advanced Aeroservoelastic Analysis Methods and Modal Suppression Techniques
- Design and Analysis of Fly-by-Wire Systems for classical and exotic vehicles designs

Classical and Cutting-Edge Design & Analysis

- Use of Time and Frequency Domain Techniques
- Employ Modern, Classical, Optimal, Robust, and Adaptive Control Methods
- Wavelet-based Time-varying System Analysis
- GN&C for Autonomous Systems
- Machine Learning
- Output-only Modal Identification



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

Contact Us



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**WHERE COMPLEX DYNAMIC
SYSTEMS AND HUMAN OPERATORS
INTERSECT**



DESIGNED TO ENGINEER

"If it moves, we can engineer a solution"

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**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.

STI has addressed the Navy shipboard approach and landing problem for both fixed- and rotary-wing aircraft over its 60-year history through advanced flight control designs, handling qualities assessments, ship motion projection, and IFLOLS stabilization.



Mission/Vision Statement

Our mission is to enhance system performance, increase safety, and reduce costs.

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.

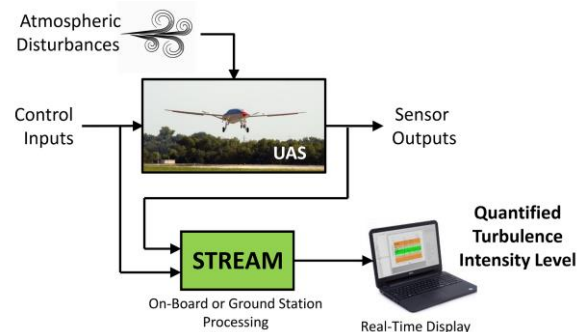
Core Competencies

- Analysis of Dynamic Systems
- Flight Control System Design and Analysis
- Autonomous Vehicle GNC
- Flight Test and Simulation
- Human-Machine Interface
- Advanced Displays
- Machine Learning
- System Identification

Current Effort for the Navy

Improve unmanned aircraft mission success and recovery in unknown and potentially turbulent atmospheric conditions by developing a system to recognize and quantify turbulence severity levels using aircraft sensor data in real-time.

Our solution decreases loss of aircraft due to turbulence through improved safety, reduce operator workload, and better-informed decision making.



The system involves two primary components:

- 1) a turbulence recognition algorithm (STREAM); and
- 2) an intuitive reporting system and display.

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

