## 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-15, 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.

## Contact Us

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**Head of Business Development, Commercial Engineering Services**
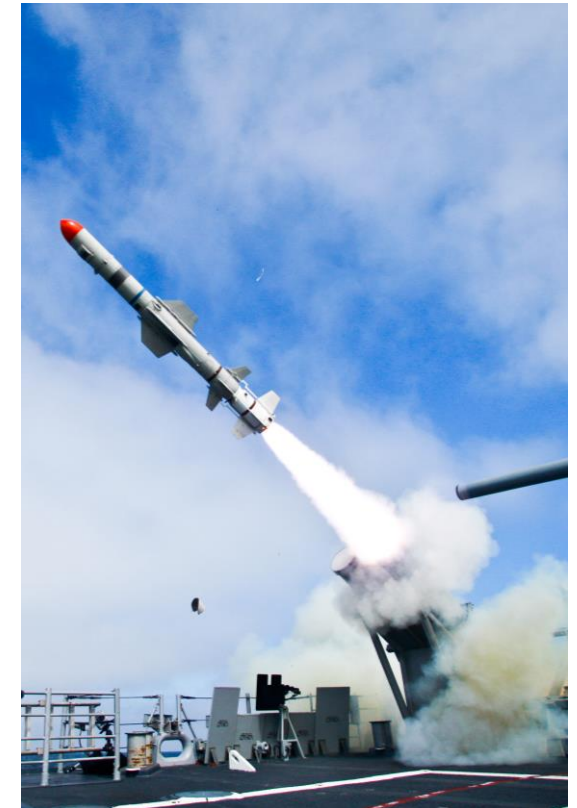**Phone: 310 679-2281 x161**
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## SYSTEMS TECHNOLOGY INC.

**Where complex dynamic systems and human operators intersect.**

## 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

The Real-time Pseudospectral Optimization Missile Guidance technology has been developed to perform real-time path optimization to meet the new and rapidly changing threat environments that confront todays warfighter.
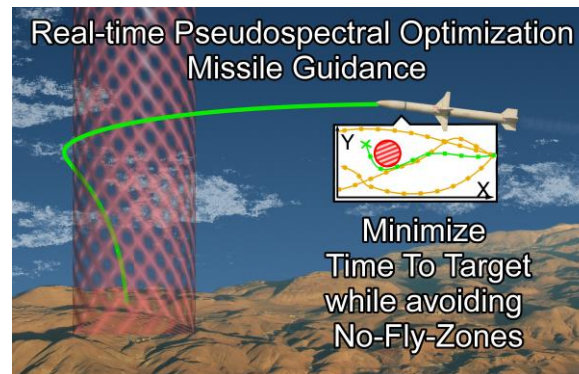


The pseudospectral optimization technology provides optimized path updates to the missile in flight, allowing course corrections to avoid and react to existing and emerging threats.

Novel missile modeling capabilities and the inclusion of Missile DATCOM into a desktop simulation permits the evaluation of multiple missile configurations and capabilities during the design phase and in preparation for mission execution.

## 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