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.

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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 today’s 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/Collaborators & Customers
- 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