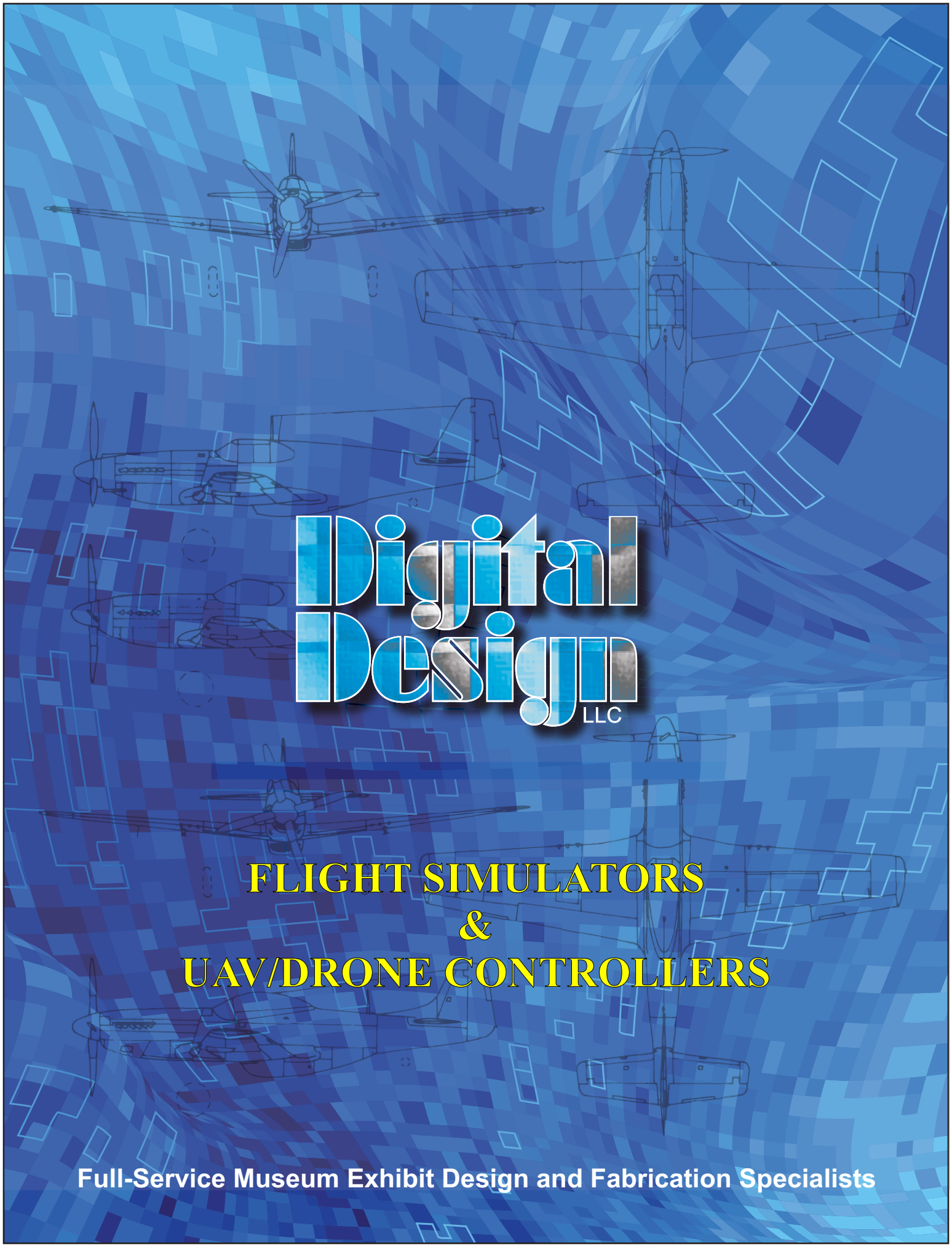
Digital
Design
LLC
FLIGHT SIMULATORS
&
UAV/DRONE CONTROLLERS
Full-Service Museum Exhibit Design and Fabrication Specialists

Contact Information

Sales Office

Digital Design LLC
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DIGITAL DESIGN IS A VETERAN OWNED SMALL BUSINESS

Interactive educational demonstration units and flight simulators are a key component for any aerospace museum. Not only do they provide your patrons a “hands on” experience they are fun and entertaining especially for the younger visitors. The systems shown on the following pages are custom configured units designed specifically to the customers specifications. Digital Design can develop and configure these units to meet your specific needs. Our flight simulator systems will operate using either off the shelf commercially available software or custom written programs designed to your individual requirements. These units are individually built and configured for any type of aircraft or space craft. Stand alone, portable and multi user designs are available.

In addition to flying in the virtual world these systems can also operate UAV and Drone units in the real world. Originally built for NASA over 15 years ago these system provide a low cost alternative for a variety of uses. Controllers are custom designed to your specific needs. Simulator systems feature such options as interactive instrumentation, wide screen or projection video displays and realistic cockpit configurations. We also provide optional remote diagnostic and maintenance upgrades. UAV and Drone controllers offer wide/multi screen video display, first person viewing (FPV) 2 way system telemetry and G.P.S.

Thank You

Jaime Johnston
Managing Partner

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Museum Quality Replicas and Artifacts

Full-sized replicas of historical artifacts are our primary specialty. Utilizing our rapid prototype production equipment, we are able to fabricate parts and components directly from blueprints, plans and photographs.

Digital Design LLC, and Arizona Aircraft Replicas LLC, has had the pleasure of producing museum-quality replicas for commercial clients for animated and static displays, museum and traveling exhibits, outdoor displays, special events, tradeshows, and film and theater productions.

Selected Client List
Museums, Airports & Government Facilities

NASA (National Aeronautics and Space Administration)
U.S. Air Force Academy - Colorado Springs, CO
USMC Museum - Quantico, VA
USCG Academy - New London, CT
US Naval Aviation Museum - Pensacola, FL
Tyndal AFB - Panama City, FL
Holloman AFB - Alamogordo, NM
National Geographic - Washington, DC
Irish Air Force Museum - Dublin, Ireland
Venezuelan Air Force Museum - Maracay, Venezuela
National WWII Museum - New Orleans, La
Commemorative Air Force Museum - Mesa, AZ
First Flight Society - Kitty Hawk, NC
USS Intrepid Sea Air & Space Museum - New York
Virginia Air & Space Center - Hampton, VA
Huffman Prairie Flying Field Interpretive Center - Dayton, OH
TAC Air Facility - Airport Raleigh Durham, NC
Regional Airport Authority- Clarksville, Montgomery County, TN
Malta International Airport - Malta
Ogden Higley Airport - Ogden, UT
Piedmont Triad International Airport - Greensboro, NC
TAC Air Facility - Airport Lexington, KY
Virgin Atlantic Airlines - United Kingdom
Charlotte/Douglas International Airport - Charlotte, NC
Curtiss Wright Corporation - Roseland, NJ
Purdue University - West Lafayette, IN
Floyd Bennett Field - Brooklyn, NY
Page Field - Ft Myers, FL
Shaw AFB - Sumter, SC
Fernandina Airport, Fernandina Beach, FL
Stapleton Airport - Denver, CO
TAC Air Facility - Airport Little Rock, AR
General Atomics - San Diego, CA
Royal Saudi Air Force - Riyadh, SA

Unbroken Movie Set
B 24 Replica

Naval Aviation Museum
LEM Replica

Frontiers of Flight Museum
Ford AT Model

Entertainment

Movie- Unbroken
Movie- Unforgiven
Movie- The Aviator
Movie- Flyboys
Movie- Transformers 3
Movie- The Congress
TV-HBO Band of Brothers
TV-Man, Moment, Machine
TV-HBO Boardwalk Empire
TV-Showdown Air Combat
TV Commercial-Virgin Atlantic Upper Class
TV Commercial-Exxon I want to be an Engineer
Mandalay Bay- Las Vegas
Industrial Light and Magic
Discovery Channel

References

Reference contact information
available upon request.

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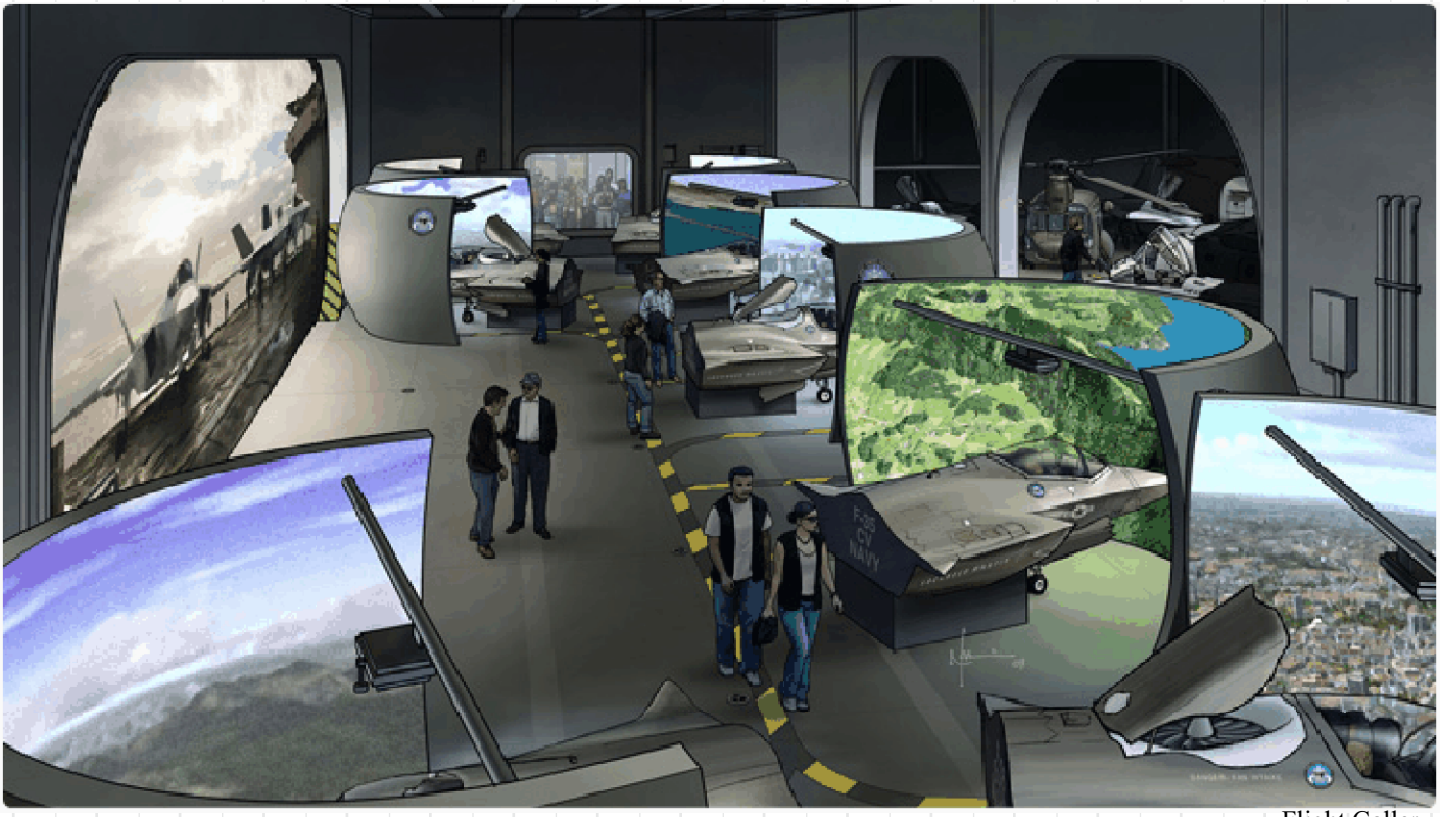
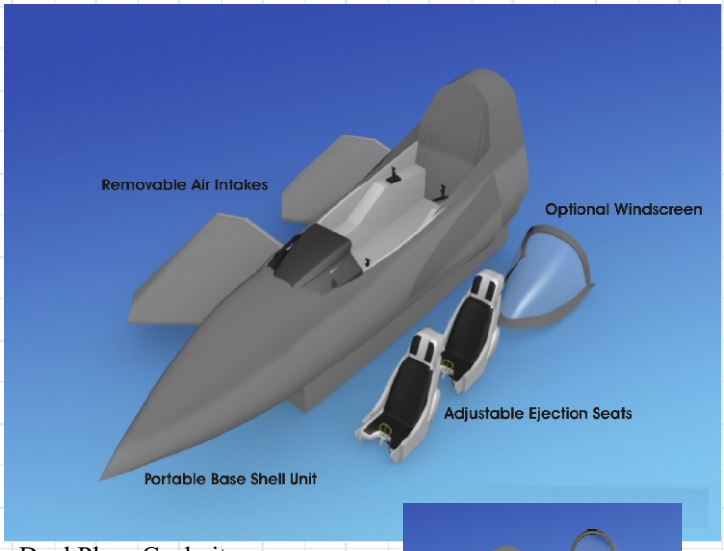
Mission Simulator

Designed for the National Flight Academy in Pensacola Florida this simulator system allows for multiple flight crews to preform missions as a team or against opponents. Modified 2 place F22 cockpits, panoramic video projectors and surround sound make for a realistic flight experience without leaving the ground.

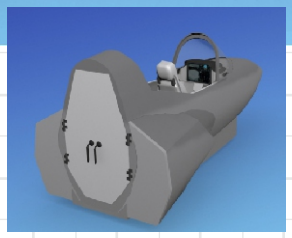


Flight Gallery



Dual Place Cockpit

Single Place Cockpit



Electronics Access

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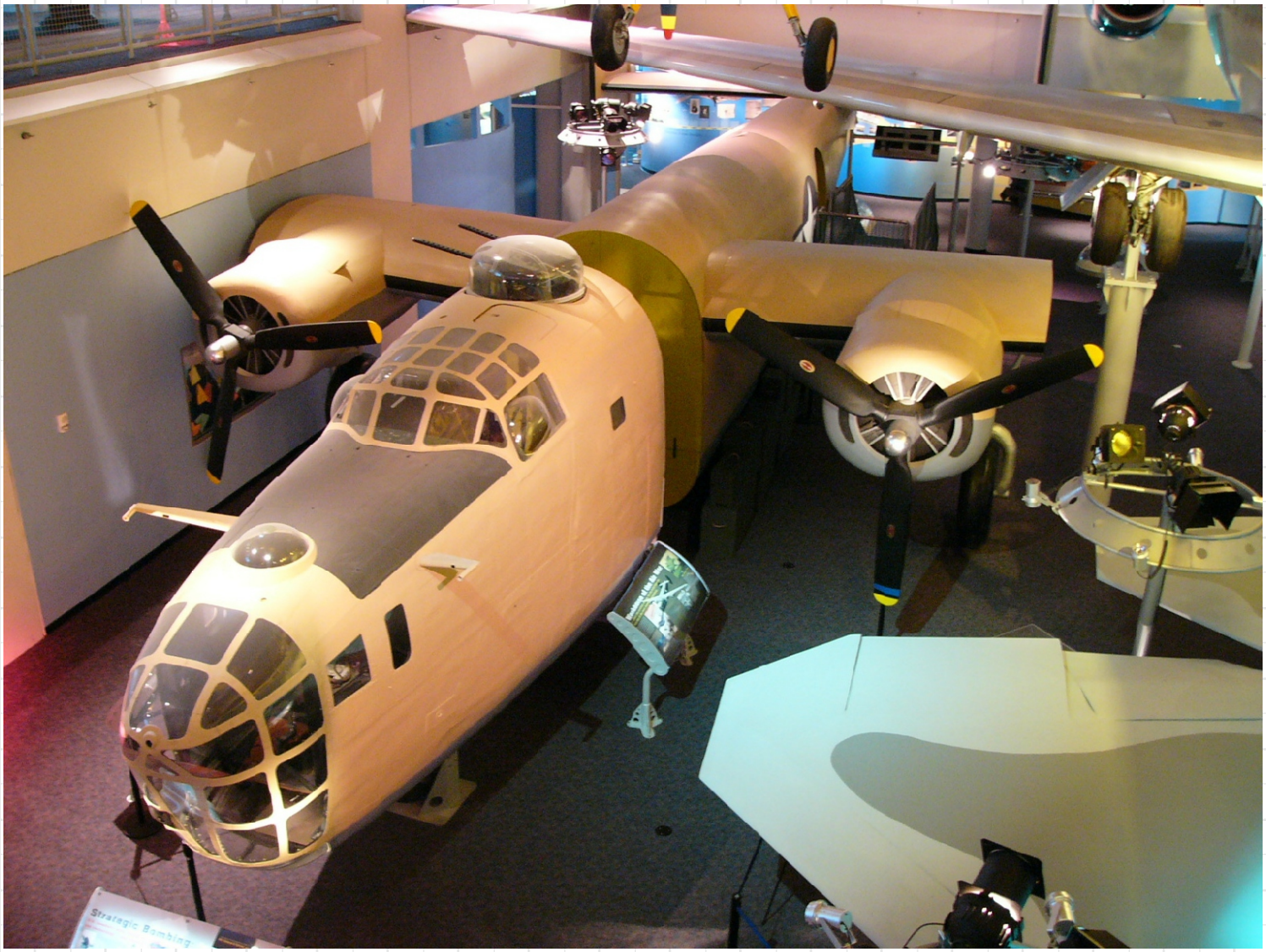
Mission Simulator



Built for the Virginia Air and Space Museum in Hampton, VA this B 24 mission simulator gives the visitors a unique experience of being on a World War II bombing raid. Built inside our first be 24 replica is a custom-designed computer-controlled motion platform. This system is fully automated and synchronized to a custom produced video combining both live actors and animation. The platform combined with a surround sound system and vibration transducers begins at an airbase in Libya and flies across the Mediterranean to its final destination of the oil refineries in Polasky Romania. The system is fully automated and does not require a docent or its operation. Fully ADA compliant this system has been in continuous operation since it was first installed in 2004.

Forward

Aft

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Flight Simulator

This flight simulator is a real cockpit from a Boeing 747 and constructed from authentic aircraft parts. The pilot, copilot and flight engineer station are configured exactly the same as the real plane. With the external video projection system and surroundsound you can have the experience of operating one of the largest aircraft flying the world today. Utilizing commercially available software plug-ins and topography are available for most of the world's airports. With the ability to configure the flight plan for day or night operations and a variety of weather conditions each flight becomes a unique experience. This system is not recommended for standalone operation due to the level of complexity and should be supervised by a docent familiar with the flight controls and systems. This simulator is intended to provide your visitors a fully immersive experience.

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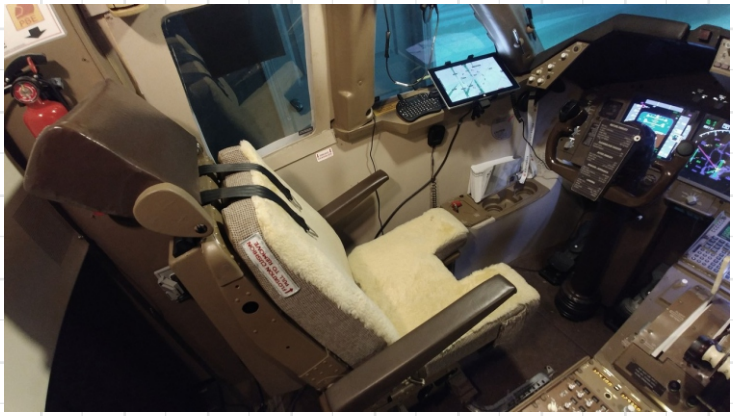
Flight Simulator

The cockpit cabin, computer system and video projectors are integrated into a single standalone unit. The simulator can be mounted into a 10' x 14' purpose built enclosure or freestanding with the addition of the external fuselage shell. Additionally the computer system has Internet capability allowing for remote system diagnostics upgrades and adjustments.



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Flight Simulator

BASIC UNITS

Interactive flight controllers are custom built and available in any flight control configuration. Our patented mechanical system will interface into a computer through a USB port or connect to a radio transmitter for the flight control of a UAV or RC model. Cosmetic fiberglass shells are available to match any cockpit layout.

F 14 Flight Simulator

1903 Replica and WWI “FlyBoys” Flight Simulator

Flight Simulator

FLIGHT CONTROL STATION FOR REAL FLYING FUN

- An economical alternative to flight simulators costing thousands more
- Any cockpit can be duplicated for training / education purposes and just plain fun!
- May be configured to a variety of aircraft types including jets, helicopters and spacecraft
- May be enclosed in optional cosmetic shell
- Works with any PC attaching through the USB port
- Compatible with any commercially available PC based gaming and flight simulator software
- Multiple systems may be networked for interactive flight combat simulations at a local network or at multiple locations.
- Systems start at $3,500 and are built to order specific to your configuration.

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Flight Simulator

DELUXE SELF CONTAINED SYSTEM

Delux System shown in F 14 configuration

CONTROLLER

- USB computer interface
- Cosmetic surround with realistic controls and pilot seat.
- 14 function yoke or joystick control (3 axis & throttle plus user defined controls)
- Power supply
- ADA compliant
- Frame structure with monitor and computer mount

COMPUTER SYSTEM

- Pentium 4 with Windows XP upgraded video gaming system
- Wireless network connection
- 42” flat screen monitor with 7 speaker stereo sound system
- Wireless keyboard and touch pad combo unit
- Choice of software
- Dual monitor with working instruments (Microsoft only)

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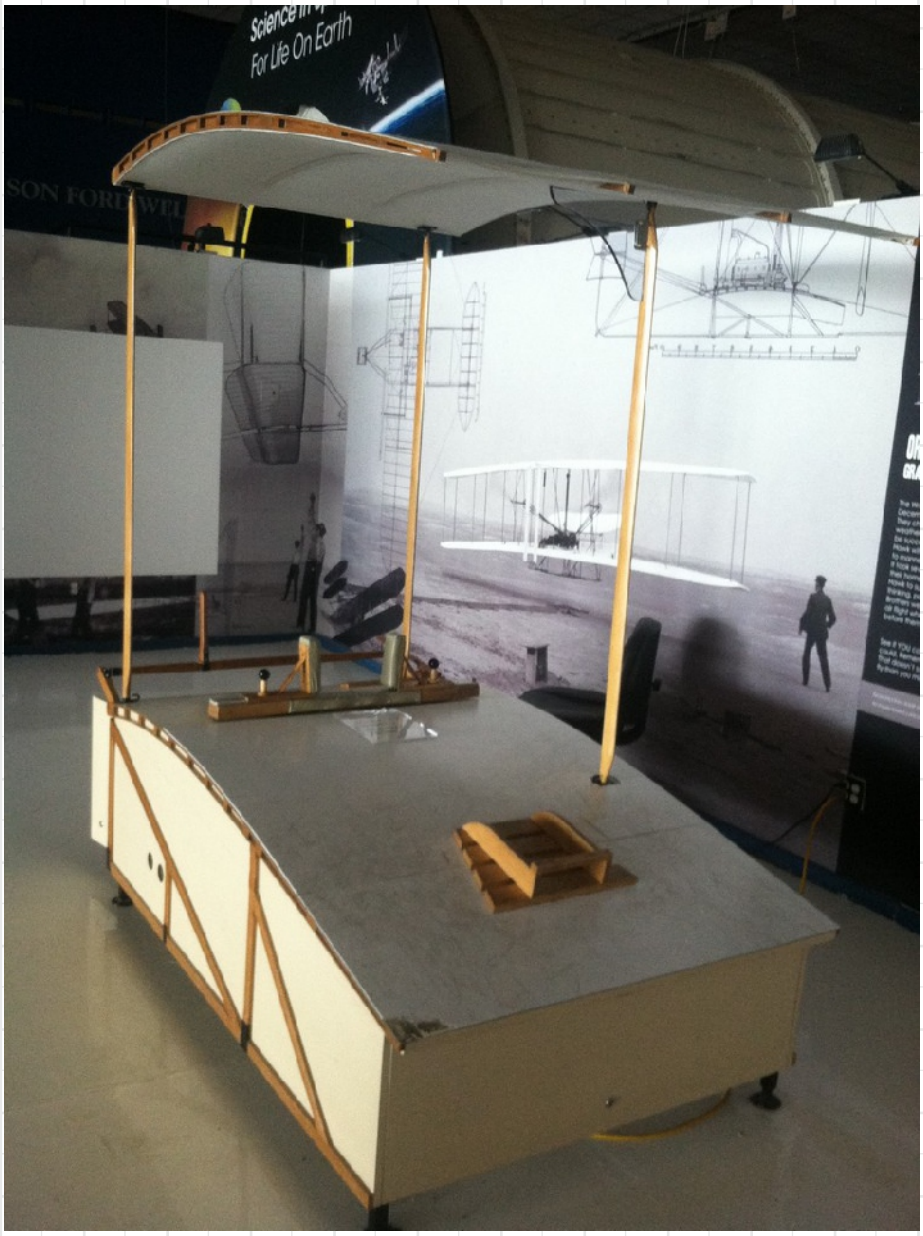
Flight Simulator



1903 Wright Simulator

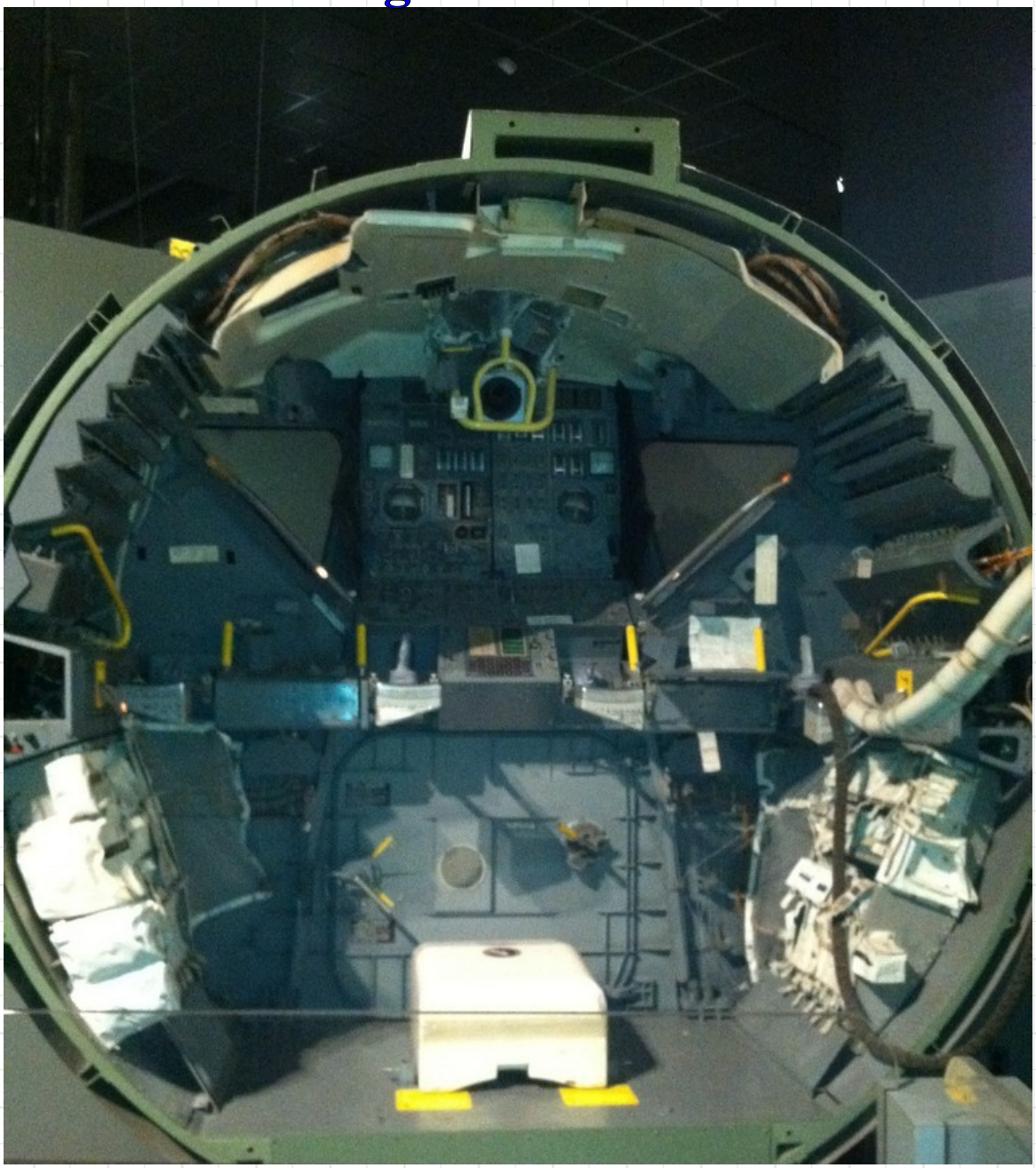
Every story has a beginning and powered flight starts here. Give you visitors the experience of flying the plane that started everything. Using the hip cradle, elevator handle and throttle this unique control system is one of a kind flight experience. The system features a video projector and is fully self contained.

Flight Simulator

Space Shuttle Simulator

Flying in outer space presents an different experience from normal flight. The shuttle simulator allows visitors to position the shuttle and enter the atmosphere and then glide to a landing all without power. This unit as shown features two different flight control configurations and can be flown individually or with the assistance of a copilot.

Flight Simulator



Lunar Excursion Module (L.E.M.) Simulator

The ultimate achievement in flight were the moon landings. A walk in L.E.M. simulator allows you visitors to have a taste of the same experience. Interactive instruments and software to allow for variable mission parameters allows you astronauts to land on the moon or to lift off and dock with the command module. These units are based on our reversed engineered design of the unit built for the Naval Aviation Museum in honor of the 40th anniversary of Eugene Cernan the last man to walk on the moon.

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Flight Simulator

Spacecraft, aircraft helicopters and Sci Fi units can all be designed as interactive simulators. Custom designed to your specifications and budget requirements these artifacts can provide years of educational entertainment with minimal maintenance.

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Self Contained Units

TAKE IT ON THE ROAD!

MOBILE FLIGHT CONTROL DEMONSTATOR

PERFECT FOR OFF-SITE & OUTDOOR EVENTS!

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Self Contained Units

MOBILE FLIGHT CONTROL FEATURES

CONTROLLER

- USB computer interface
- DIN transmitter connection (optional)
- 14 function yoke or joystick control (3 axis & throttle)
- Power supply
- ADA compliant
- Frame structure with monitor and computer mount

COMPUTER SYSTEM

- Pentium 4 with Windows XP upgraded video gaming system
- Wireless network connection
- 42”-60” flat screen monitor with Dolby 5.1 surround sound system
- Wireless keyboard and touch pad combo unit
- Choice of software

TRAILER

- 6’ x 12’ wedge nose trailer with single axle
- Reinforced steel frame
- Diamond plate flooring
- Storage cabinets and work counter
- Dual 110VAC 12 VDC power system
- Internal lighting

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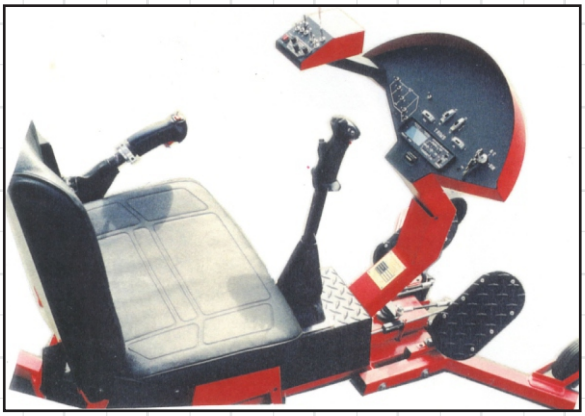
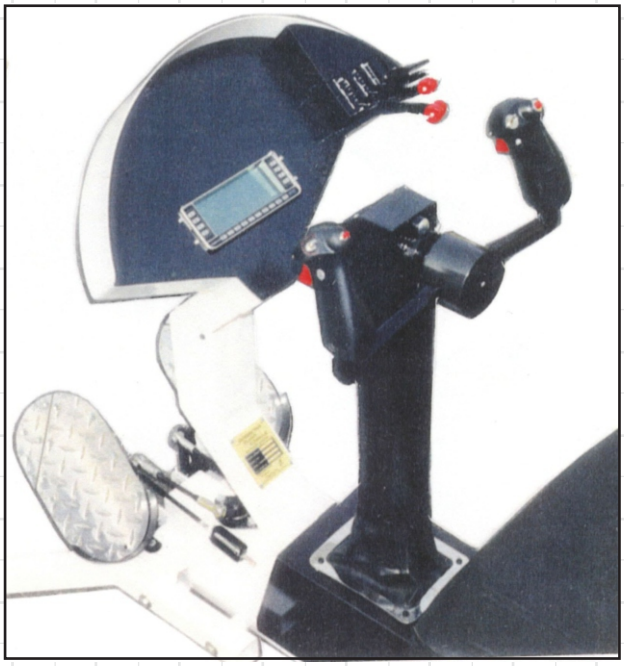
UAV Drone Controller

LOW COST UAV CONTROLLER SYSTEMS

UAV/RC CONFIGURATION

Interfacing to a standard radio control transmitter through the “Buddy Box” connector, the IFC is perfect for the sight control of models and UAVs





UNITS INCLUDE:

- ► USB computer interface
- ► Backup transmitter connection
- ► 12 Channel Capability Standard
- ► AUX Power Outlets
- ► 2 Way Telemetry Capable
- ► Line of Site Operation

J OY STICK or YOKE / WHEEL **HELICOPTER OR VTOL**

AVAILABLE OPTIONS:

- ► **Option 1:** Multi screen capability
- ► **Option 2:** Self contained power supply
- ► **Option 3:** System telemetry on independent channel s

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