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# Tactile Panels



## Results

- Realistic visual and tactile interaction
- Vehicle independent base
- Swappable vehicle-specific instrument consoles
- Barcodes that auto-recognize aircraft-specific hardware

## Benefits

- Reduced cost, footprint, and power requirements
- An immersive training environment with physical knobs, buttons, and switches
- Reconfigurable HRI, allowing the same vehicle cab to be used for an ever-changing set of trainers
- Increased simulator utilization
- Lightweight, wireless instrument consoles
- Easy on-site setup

## Problem

The Navy seeks to fill the technology gap between PC-based simulation and full scale vehicle trainers. PC-based simulations lack haptic fidelity, and do not allow pilots to navigate controls by touch. Full scale cockpit simulators are bulky, expensive, single purpose devices that lack flexibility.

## Solution

A single training station built with vehicle-independent base and swappable instrument panels to meet the needs of an entire fleet in space-limited environments (such as aircraft carriers). Physical components that replicate the look and feel of actual aircraft instrument panels, and a simulator pod that reads those components through machine vision, providing swappable, lightweight and essentially wireless consoles.

## Contact Data

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