



AnthroTronix, Inc.

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Background

- **Founded July, 1999**
- **15 Employees**
- **Business Strategy**
 - For Profit R&D Contract Services
 - Retain IP-Build IP Portfolio
 - Product Development
- **Launched Subsidiary-AT KidSystems**
 - Rehabilitation Products
 - Educational Products

Core Technologies

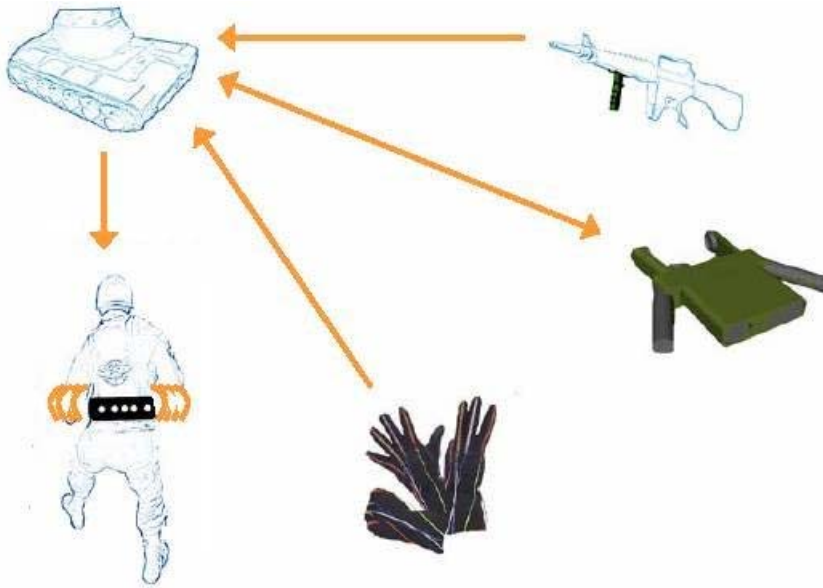
- **Advanced Human-Machine Interfaces**
- **Multimodal Interfaces**
- **Adaptive Control Interfaces**
- **Communication & Command/Control**
 - Wearable Computers
 - Robotic Platforms
- **Complex Systems Integration**
- **Experimental Design and Testing for Technology Transfer**
- **Simulation and Training**

Awards/Honors

- 2006 Peak Performance Award
- 2005 Tibbetts SBIR Award
- 2004 World Economic Forum - Technology Pioneer
- 2003 American Dream Award
- 2002 Maryland Innovator of the Year
- Featured in Time Magazine and Forbes

Funding Agencies

- U.S. Navy, Office of Naval Research
- U.S. Army, Army Research Labs
- DARPA
- OSD
- NASA
- National Center for Defense Robotics
- National Science Foundation
- National Institutes of Health
- Department of Education



Core Concepts

- Embedded Interfaces for Dismounted Soldier
 - Wearable & Weapon-Mounted Form Factors
 - Ruggedized Technologies
 - Facilitate Communication and Command/Control
 - Increase Remote Situational Awareness
- Multimodal Interface Technologies
 - Applied Force, Voice, Gesture, Body Movement
 - Allow for Dynamic Interaction

SBIR II

- Human-Robot Control Interface
 - (US Army ARL - SBIR II)

SBIR II Plus

- Human-Robot Control Interface
 - (U.S. Army ARL -SBIR II Plus)
- Technology Transfer
 - (TATRC-SBIR II Plus)
- VIRTE
 - (ONR-SBIR II Plus)

DoD Mentor Protégé Program

- Lockheed Martin, Advanced Technology Labs / AFRL

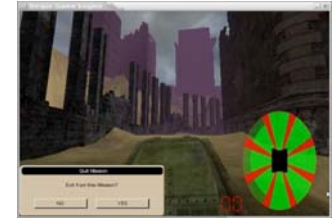
Technologies Developed

- Operator Control Units
- Input Devices
- Visual Displays
- Vibrotactile Displays
- 3D Simulated Environments
- Speech and Gestural Interfaces

Overview Advanced Interface Technologies



Mounted Force Controller



JAUS Simulator



iGlove



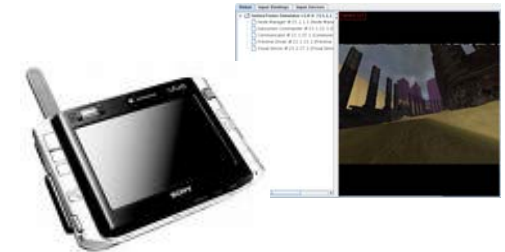
Vibrotactile/Processor Belt



Weapon Mounted Display



Visually Integrated Sensor Unit (VISUnit)



JAUS OCU



- Control and Feedback Device with head tracking.
 - Robot and payload control
 - Computer interface
- Features/Advantages
 - Multiple Modes
 - First person
 - Remote
 - Map mode
 - 3D overlay
 - Remote camera pans/tilts with motion of user's head
 - User can investigate from robot's perspective
 - Increased Situation Awareness
 - JAUS compliant

