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

## 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

## 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

## 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

Technologies Developed

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

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
Overview
Advanced Interface Technologies

iGlove

Mounted Force Controller

Vibrotactile/Processor Belt

Weapon Mounted Display

Visually Integrated Sensor Unit (VISUnit)

JAUS Simulator

JAUS OCU
Mentor-Protégé Technology Dev.
Visually Integrated Sensor Unit (VISUnit)

• 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