AnthroTronix, Inc.

8737 Colesville Rd, L203

Silver Spring, MD 20910

www.atinc.com

info@atinc.com

ATinc

AnthroTronix

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**

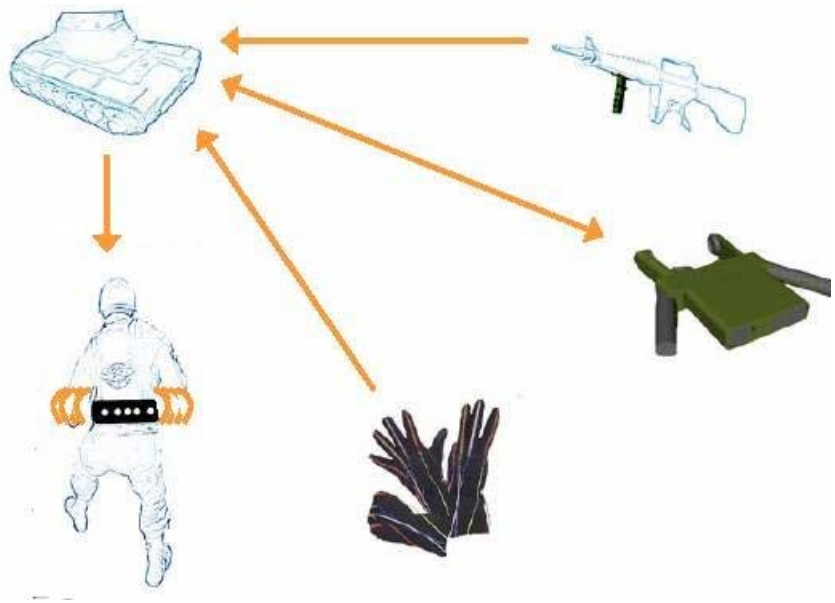
Awards/Honors

- 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

ATinc Military R & D



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

JAUS OCU

Weapon Mounted Display

Visually Integrated Sensor Unit (VISUnit)

Mentor-Protégé Technology Dev.

Visually Integrated Sensor Unit (VISUnit)

AnthroTronix

- 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