



IndoTraqTM

Sub Millimeter Wireless Motion Tracking

September 2018

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Overview

- What We Do – Precision motion tracking
- Applications – Numerous
- Market Opportunity - Significant
- How it Works
- Experience
- Summary / Benefits
- Demo - Virtual Reality Immersion

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IndoTraq™ has developed the fastest and most precise wireless motion tracking system.

- Tracking system provides sub millimeter precision at an update rate of 150 Hz (6ms latency)
- Signal penetrates obstacles and walls
- Indoor range 100m / Outdoor range 200m
- Wireless UWB technology (3 to 10 GHz)
- High bandwidth / Channel capacity
- Auto configuration / Portable
- 125 mA power at 3.3V
- Positioning data made available via USB, Bluetooth, and WIFI

Patented Technology

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Applications: What could you do with sub mm motion tracking precision

- **Location Based Virtual Reality / Augmented Reality**
 - Mobile Games – full immersion, walk around freely
 - Training simulations: Military, Sports, High risk activities
 - Gesture / Motion tracking
- **Consumer Engagement**
 - Virtual Shopping / Showrooms (Car) / Dealerships
 - Virtual Events / Advertising
- **Entertainment and Production**
 - Motion capture and tracking, immersive content
 - Automation of lighting and cameras
- **Athlete Tracking and Analytics Technology**
 - Training simulation, wearable tracking technology
 - Performance capture, monitoring and analysis
 - Track player health and safety



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Applications: What could you do with motion precision to the nearest mm

- **Autonomous Drones**
 - Automation using high precision 3D positioning
 - Video capture; Air delivery; Analytics
- **Autonomous Devices / Robotics**
 - Home robots, IoT
- **Wearables**
 - Activity Trackers
 - Wearable monitoring – Medical / Safety
- **Healthcare – Hospitals**
 - Real time asset, Patient, Staff Tracking
 - Work flow analysis and management
- **Motion / Position Based Analytics**
 - Real time work flow analysis, Deep Learning
 - Generate actionable information and insight



Market Opportunity - Significant

- **AR / VR market** to reach **\$150bn** by 2020 (Digital capital)
- Worldwide **wearable** market forecast to reach 126.1 million Units in 2019 (IDC)
 - **Smart wearable** market to generate **\$53bn** hardware revenues by 2019 (Juniper)
- **Drones** market potential **\$100+ billion** (Goldman Sachs, PWC)
- **Remote Monitoring** to reach **\$26.4bn** by 2018 (Berg Insight)
 - 19 million will use remote patient monitoring by 2018
- **Smart Homes** Market worth **\$58.68 Billion** by 2020 (MarketandMarkets)
- **Location based services** market to reach **\$43.3bn** by 2019 (Juniper Research)
- 250 Million **Connected Cars** by 2020 Worldwide (Gartner)
- **Internet of Things** market to reach **\$1.7 Trillion** by 2020 (IDC)

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Experience



Michael
Hamilton
Founder / CTO

- 25 yr building embedded electronics and robotic systems
- **Extensive experience with motion tracking and control**
- Able to take idea from concept to final product
- 3D Design / Injection molding
- PCB Design / Manufacturing (0.5mm BGA, 0.4mm QFN)
- Low cost component sourcing / assembly
- 22 programming languages
- 16 years experience in Electrical & Chemical Engineering managing high profile industrial automation projects

Summary / Benefits

- Wireless sub millimeter motion tracking
 - Minimum latency (6 ms)
 - Small device (<1" x 1")
 - Cost effective
 - Portable
 - Auto configuration
- Works where GPS can't
 - **Indoors** – (penetrates obstacles and walls)
- Location / motion based analytics
 - Generate actionable information and insight
- Allows the development of new products and services
 - VR (games, showrooms, event), AR, Robotics, Drones, etc.
- Significant Market opportunity
- Proven Team



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Thank You

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