

**EVITAVONNI
CONSTRUCTION
— GROUP —**

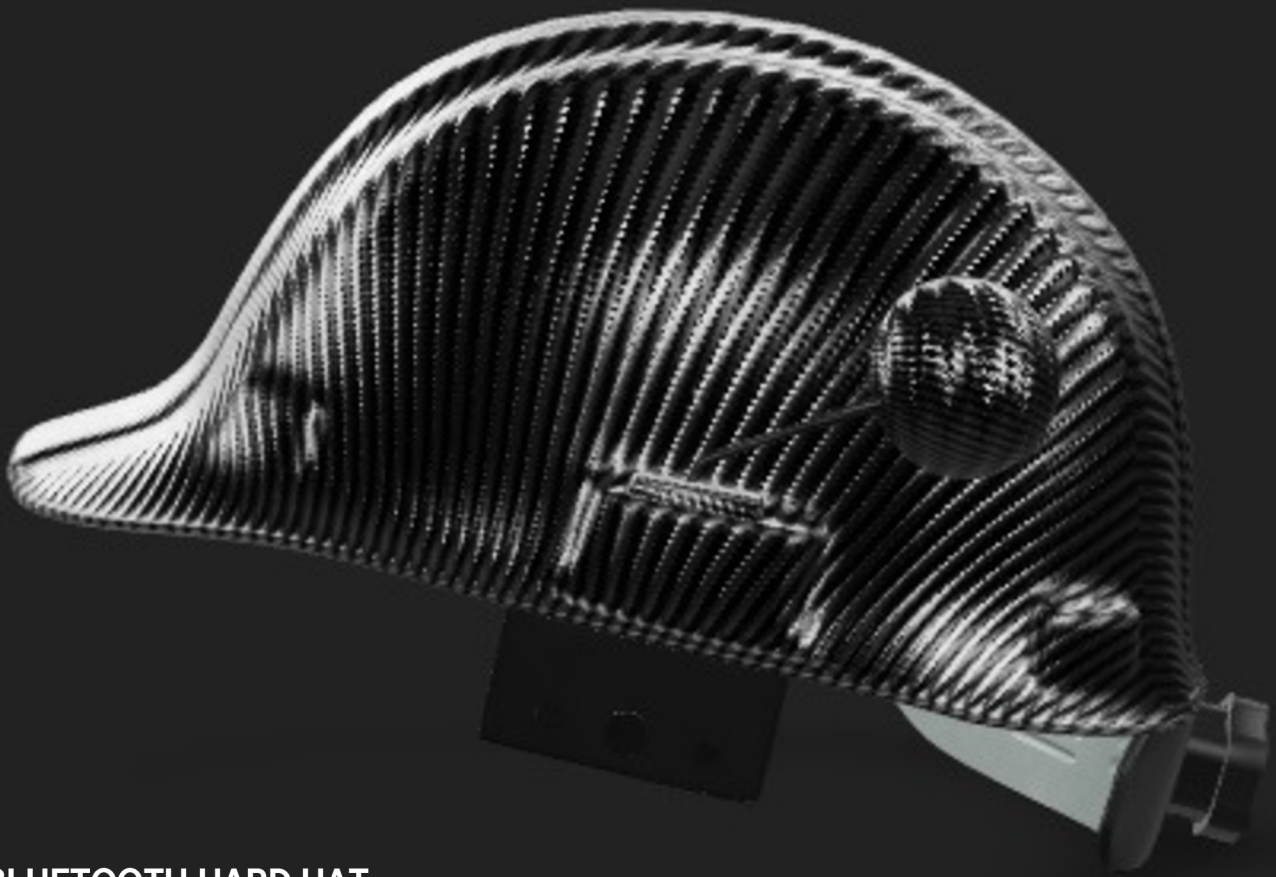
THE BLUETOOTH HARD HAT

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PRESENTED BY:
**EVITAVONNI
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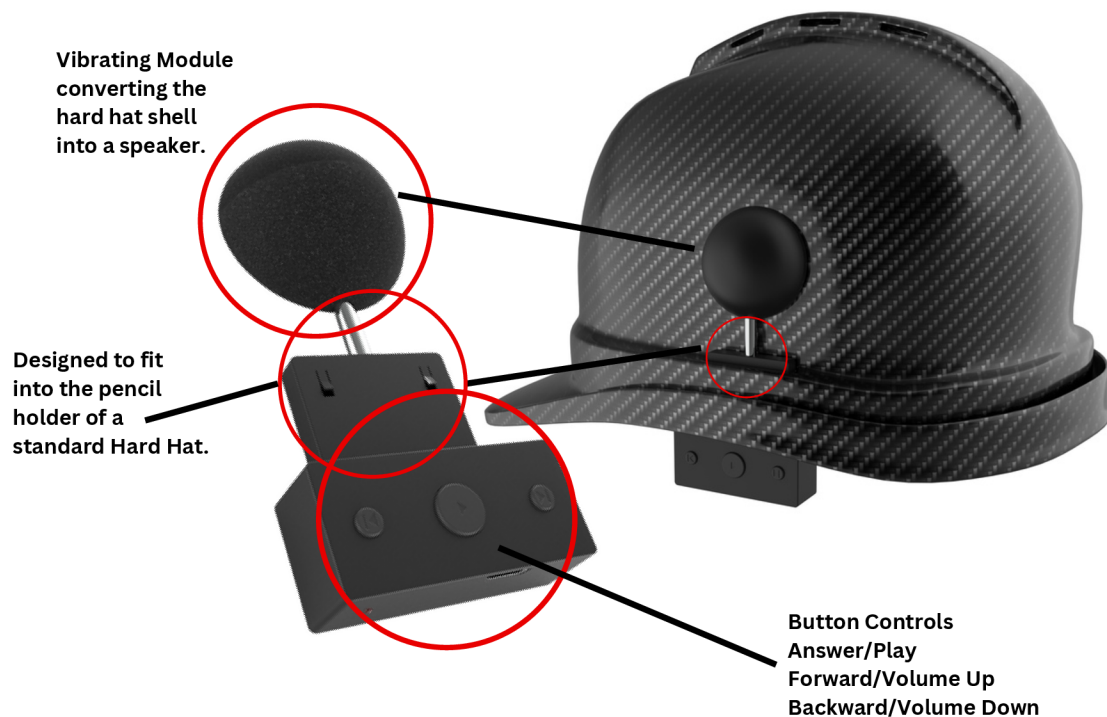
THE BLUETOOTH HARD HAT

INTRODUCTION



Revolutionizing Worksites with Smart Tech Safety

The Bluetooth Hard Hat is a revolutionary advancement in personal protective equipment, integrating **hands-free communication, real-time connectivity, and workforce efficiency into a certified safety helmet**. Unlike traditional hard hats, it enhances job-site coordination without the need for external radios or headsets. Its open-ear design ensures clear communication while maintaining full situational awareness. Using **Wi-Fi and Bluetooth**, it enables **seamless connectivity**, replacing costly infrastructure with a scalable, cost-effective solution. Designed for **construction, mining, oil & gas and industrial applications**, it improves safety, productivity, and team coordination.



THE TECHNOLOGY

Why We're The Future...

Eliminates Traditional Audio Devices While Enhancing Communication

Unlike existing solutions that rely on external headsets, earpieces, or earmuff-style communication devices, our technology turns the **hard hat itself** into a **speaker through harmonic resonance**. This removes the need for additional equipment that can interfere with hearing protection, cause discomfort.

Maintains Full Situational Awareness

Traditional headphones and earmuffs block environmental sounds, creating safety risks by limiting a worker's ability to hear alarms, machinery, or nearby voices. Our system allows workers to receive clear, real-time communication **without covering their ears**, ensuring continuous awareness of job-site hazards while still staying connected.

Cost-Efficient Alternative to Expensive Radio Infrastructure

Many industries rely on leaky feeder radio systems, repeaters, and wired communication networks that cost millions to install and maintain. Our system works with **Wi-Fi, cellular networks, or Bluetooth**, eliminating the **high infrastructure costs** associated with underground mining, large construction sites, and remote work environments.

Future-Proof and Scalable

The fact that our system can work with multiple communication technologies (Bluetooth, radio, Wi-Fi, cellular) makes it adaptable for future advancements in smart job-site connectivity. It can be easily integrated with **workforce tracking, AI-driven safety monitoring, and IoT-based site management**, making it a **powerful tool for industrial digital transformation**.



Our Bluetooth Hard Hat is more than just a PPE upgrade—it is a fundamental shift in how safety and communication coexist on job sites. By transforming the hard hat into a communication device itself, we've created a solution that enhances productivity, reduces costs, and improves safety in ways that no existing product can match.

This patented technology has the potential to disrupt multiple industries, including construction, mining, oil & gas, utilities, shipbuilding, and more. It fills a critical market gap by providing a smarter, safer, and more cost-effective communication solution that removes the need for additional headsets, expensive infrastructure, and outdated walkie-talkies.

More Than a Hard Hat —A Game Changer.

Feature	Bluetooth Hard Hat	Traditional Walkie-Talkies	Bluetooth Earmuffs & Headsets	Industrial Communication Headsets
Hands-Free Communication	Yes	No	Partial	Partial
Situational Awareness	Yes (Open-Ear Design)	No	No	No
Audio Clarity & Signal Strength	Crystal-Clear Bluetooth Audio	Prone to Static & Interference	Limited	Moderate
Infrastructure Costs	Minimal (Uses Wi-Fi/Bluetooth)	Expensive Leaky Feeder Systems	No Network Required	High
Software & IoT Integration	Yes	No	No	No
Live Alerts & Data Logging	Yes	No	No	No
Future-Ready Technology	Yes (Upgradeable via Software)	No	No	No

Where They Fail, We Deliver....

Competing products rely on outdated infrastructure and limited adaptability—our Bluetooth Hard Hat is a self-contained, scalable solution that transforms workplace safety and efficiency.

By integrating seamless hands-free communication, real-time safety alerts, and IoT workforce analytics into a certified hard hat, we eliminate the barriers of traditional radio systems, expensive infrastructure, and inefficient communication tools.

As industries move toward smart technology and automation, our product ensures that companies are equipped for the future, reducing costs while increasing safety and productivity.

Smart Tech Capability



The Bluetooth Hard Hat is more than just a revolutionary piece of protective equipment—it is the future of smart job-site connectivity, powered by a cutting-edge **software app** that seamlessly integrates with our hardware. Unlike any other safety gear on the market, our custom-built software ecosystem transforms the hard hat into a real-time communication hub, a workforce management tool, and an advanced safety monitoring system—all in one. With hands-free voice communication, live alerts, GPS tracking, task coordination, and AI-driven safety analytics, our system eliminates the inefficiencies of outdated radios and bulky headsets while delivering unparalleled situational awareness. The ability to receive instant software updates ensures that the Bluetooth Hard Hat evolves over time, integrating future technology enhancements like biometric health monitoring, predictive hazard detection, and IoT-driven automation. No other product in the market offers this level of intelligence, adaptability, and performance, making our smart hard hat the ultimate tool for the modern workforce—redefining safety, efficiency, and innovation like never before.

Revolutionizing Safety Across Multiple Industries

The Bluetooth Hard Hat is a game-changing innovation designed to enhance safety, communication, and efficiency across **multiple industries**, including **construction, oil & gas, electricians, mining, utilities, heavy manufacturing, shipbuilding, rail and transit infrastructure, and tunneling**, providing a cost-effective, future-ready solution that eliminates outdated communication barriers while improving real-time coordination on job sites.

Market Demand & Growth Potential

- The global industrial **safety helmet market** is expected to reach **\$3.19 billion by 2030, driven** by increasing safety regulations and the demand for smart PPE solutions.
- The construction safety equipment market alone is worth **over \$10 billion**, showing massive potential for integrated smart hard hats in commercial and civil engineering projects.
- Smart PPE adoption is expected to grow by 20% annually, as industries move toward connected, AI-driven safety solutions.

6.5 Million

workers in North America are required to wear hard hats daily, representing a massive market for smart PPE solutions.

2.7 Billion

The global industrial safety helmet market is projected to grow from 2.7 billion to 3.19 billion by 2030

20%

Smart PPE is expected to grow by 20% annually, as industries move toward real-time communication, workforce tracking, and automation-driven safety solutions.

EVITAVONNI CONSTRUCTION GROUP

“EVITAVONNI” STANDS FOR “INNOVATIVE” ...

(54) **HARD HAT COMMUNICATION SYSTEM** (52)

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 339 days.

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Related U.S. Application Data