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# Every Thing online. Every Thing safe. Every Thing Automated.

## Next-Generation IoT and AI-Driven Smart Solutions

BrumBella revolutionizes how spaces think, react, and protect. We design smart systems that automate, monitor, and secure — without compromising your privacy.

Explore Our Solutions          Join the Future

12/29/25, 9:15 PM

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# About BrumBella

Pioneering the Future of Intelligent Spaces

At BrumBella, we're not just building smart systems — we're revolutionizing how spaces interact with people.

We seamlessly blend **Artificial Intelligence**, **Internet of Things**, and **Edge Computing** to create truly intelligent ecosystems that think, learn, and adapt to your needs.

🚀 Core Innovation

12/29/25, 9:15 PM

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Our groundbreaking WBS technology redefines privacy-focused monitoring. Unlike traditional systems that record everything, we capture only 3D spatial coordinates — ensuring complete security without visual intrusion. Your privacy remains sacred while your space stays protected.

## Our Mission

To build intelligent environments that safeguard privacy, enhance productivity, and simplify life through autonomous automation — making technology work invisibly for you.

## Our Vision

A connected world where technology silently orchestrates in the background — protecting, optimizing, and empowering every human space without intrusion or complexity.

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## Our Promise

Privacy-first innovation that never compromises your security. Smart systems that enhance life without surveillance. Technology that serves humanity, not the other way around.

**3**

DEVELOPMENT PHASES

**100%**

PRIVACY FOCUSED

**∞**

POSSIBILITIES

12/29/25, 9:15 PM

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# Our Solutions

Multi-Phase Development Roadmap

## 🔒 Phase 1: Privacy-Centric Smart Security

✓ AI-powered tracking using stereo cameras + RFID

✓ Detects and monitors objects in 3D space

✓ Humans represented as blank green outlines for privacy

✓ Local edge processing (no cloud dependence)

## 🥽 Phase 2: AR-Enabled Interaction

✓ AR Glasses for item tracking and maintenance

✓ Cooking and workflow guidance with real-time overlays

✓ AI-driven contextual assistance

✓ Real-time visualization of objects and inventory

✓ Advanced interaction with smart environments

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traditional NVR/DVR systems

✓ Perfect for bedrooms, hotels, and sensitive areas

## 🏪 Phase 3: Smart Retail & Warehouse Automation

✓ Autonomous billing with AI + RFID integration

✓ Real-time stock management and analytics

✓ AR-based retail experience for product visualization

✓ Industry 4.0 integration for manufacturing

✓ Smart warehouse management and optimization

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# Core Technologies

Cutting-Edge Tech Stack Powering Our Solutions

**Edge AI & Computer Vision**

**RFID / QR Tracking**

**Embedded Systems**

**Python & TensorFlow**

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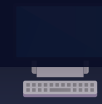
**OpenCV & Stereo Vision**

**Industry 4.0 Integration**

**ESP32 & IoT**

**Raspberry Pi & Jetson Nano**

# The BrumBella WBS Cube

Revolutionary Hardware Design for Edge Computing

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# Sleek. Powerful. Private.

A carbon-fiber smart cube that redefines edge computing and intelligent monitoring.

**Transparent Front Display** with dynamic status LEDs

**7-inch Monitoring Screen** for real-time visualization

**Multi-Sensor Integration** (RFID, camera, temperature, motion)

**Real-time AI Processing** on-device for maximum privacy

**Carbon-Fiber Construction** for durability and aesthetics

Next-Gen Edge Computer

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# Services

Flexible Solutions for Every Need

## 💼 SaaS + HaaS

Hybrid Software-as-a-Service and Hardware-as-a-Service model for maximum flexibility

## 📊 Subscription Analytics

Affordable hardware deployment with optional subscription-based AI and IoT analytics

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🔒 **Cloud-Free Processing**

Local AI processing ensures speed, privacy, and data security

🏠 **Residential Solutions**

Smart home automation with privacy-first monitoring

🏭 **Industrial Solutions**

Industry 4.0 integration for manufacturing and warehousing

🛒 **Retail Solutions**

Autonomous billing and customer experience enhancement

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# Get In Touch

Let's Build the Future Together

## Want to make your space truly intelligent?

Connect with us to discover how BrumBella can transform your environment.

🌐   www.brumbella.com

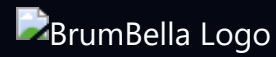📍   Chennai, Tamil Nadu, India

✉️   brumbellaco@gmail.com

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