

AAEON and Cogniteam's Partnership Prove Modern Robotics is All About Integrations

Removing the burden of robotic integrations, AAEON has developed robotics hardware that is ready for the Nimbus drag and drop platform.

EINDHOVEN, NETHERLANDS, August 1, 2022 /EINPresswire.com/ -- AAEON, a leading designer and manufacturer of industrial IoT and Edge AI solutions, has partnered with Cogniteam to develop ready-to-build robotic hardware that leverages Cogniteam's [Nimbus](#) software, the leading drag and drop robotics operating system.

Companies who recognize a new market demand can immediately choose the AAEON system, device, or hardware that's right for them and know that it is fully supported with the Nimbus no-code integration. This means companies can quickly develop and deploy advanced GPS, light, and other sensors using field-tested software solutions.

Today, developing and deploying a robot is time and resource intensive. From the time a decision is made to build the robot, until it is actually deployed can often take years. By the time it is used for its initial purpose, the technology risks already being out of date. In response, AAEON partnered with Cogniteam to develop hardware systems that come with various foundational capabilities- all of which are pre-integrated with Nimbus. Without this key advantage, operators lack cloud-connected capabilities, which allow for over the air updates, monitoring, insights, and operational insights.

AAEON offers a wide range of hardware systems based on the NVIDIA Jetson line of SoC's for compatibility with Cogniteam's Nimbus software. This line of embedded box PCs features the

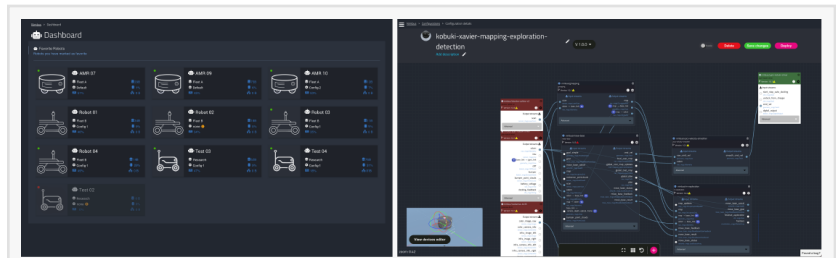


(Left) Digital Robot in Simulation Environment, (Right) Live Robot in the Field



AAEON BOXER PCs with NVIDIA SoC, Validated with Cogniteam Nimbus

Jetson Nano ([BOXER-8220AI Series](#)) with a great cost-to-performance ratio, the Jetson Xavier NX ([BOXER-8250AI Series](#)) with flexible I/O features, the Jetson AGX Xavier (BOXER-8240AI Series) for enhanced AI performance, and the newest Jetson AGX Orin (BOXER-8600AI Series) for server class AI performance at the edge.



(Left) Cogniteam Nimbus Dashboard, (Right) Cogniteam Nimbus Drag and Drop Feature

Since its launch, Cogniteam's Nimbus has improved integration and widespread adoption of ROS and NVIDIA Jetson software packages. Developers pick from a catalog of algorithms, AI, process control, spatial recognition, and more. The robot can then be tested in a simulated environment to understand how the robot will handle various scenarios before it ever leaves the production floor.

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This integration allows anyone to access today's most advanced capabilities using pre-integrated AAEON components adding a cloud layer to a robot's design”

Owen Wei, Marketing and BD Manager at AAEON

“We are honored to have AAEON offer parts that are Nimbus enabled, allowing rapid uptime by syncing with a virtual environment,” said Yehuda Elmaliah, Co-founder and CEO of Cogniteam. “In a few clicks, developers benefit from a system that's already familiar with AAEON's hardware specifications and abilities. Developers can choose off the shelf parts and significantly cut development time.”

Moving the burden of integration from individual organizations to a centralized platform gives robot operators valuable analytics, fleet management capabilities, OTA updates, remote control features, and more. “This integration allows anyone to access today's most advanced capabilities using pre-integrated AAEON components,” said Owen Wei, Marketing and BD Manager at AAEON. “Adding a cloud layer to a robot's design keeps it up to date with continuous communication to the home base.”

Integration demands will only increase as edge-devices begin carrying greater processing power and more advanced capabilities. Robots and components that are designed for cloud connectivity integrations benefit from a longer life, thanks to the ability for features to be added over time. Outfitting robots with tools for modern activities allows them to remain in the field longer without risk of becoming obsolete.

[Media Kit Download] <https://solutions.aaeon.com/images/AAEON-Cogniteam-Partnership-PR-Pictures.zip>

[About AAEON]

Established in 1992, AAEON is one of the leading designers and manufacturers of industrial IoT and AI Edge solutions. With continual innovation as a core value, AAEON provides reliable, high-quality computing platforms including industrial motherboards and systems, rugged tablets, embedded AI Edge systems, uCPE network appliances, and LoRaWAN/WWAN solutions.

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[About Cogniteam]

Cogniteam has been developing artificial intelligence technologies for robots for over ten years, working with blue chip companies on mapping, navigation and autonomous decision-making. They have now packaged their unique suite of algorithms together as a single product in Nimbus, bringing developers a unique Cloud-based robotic artificial intelligence solution in one easy-to-use place.

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