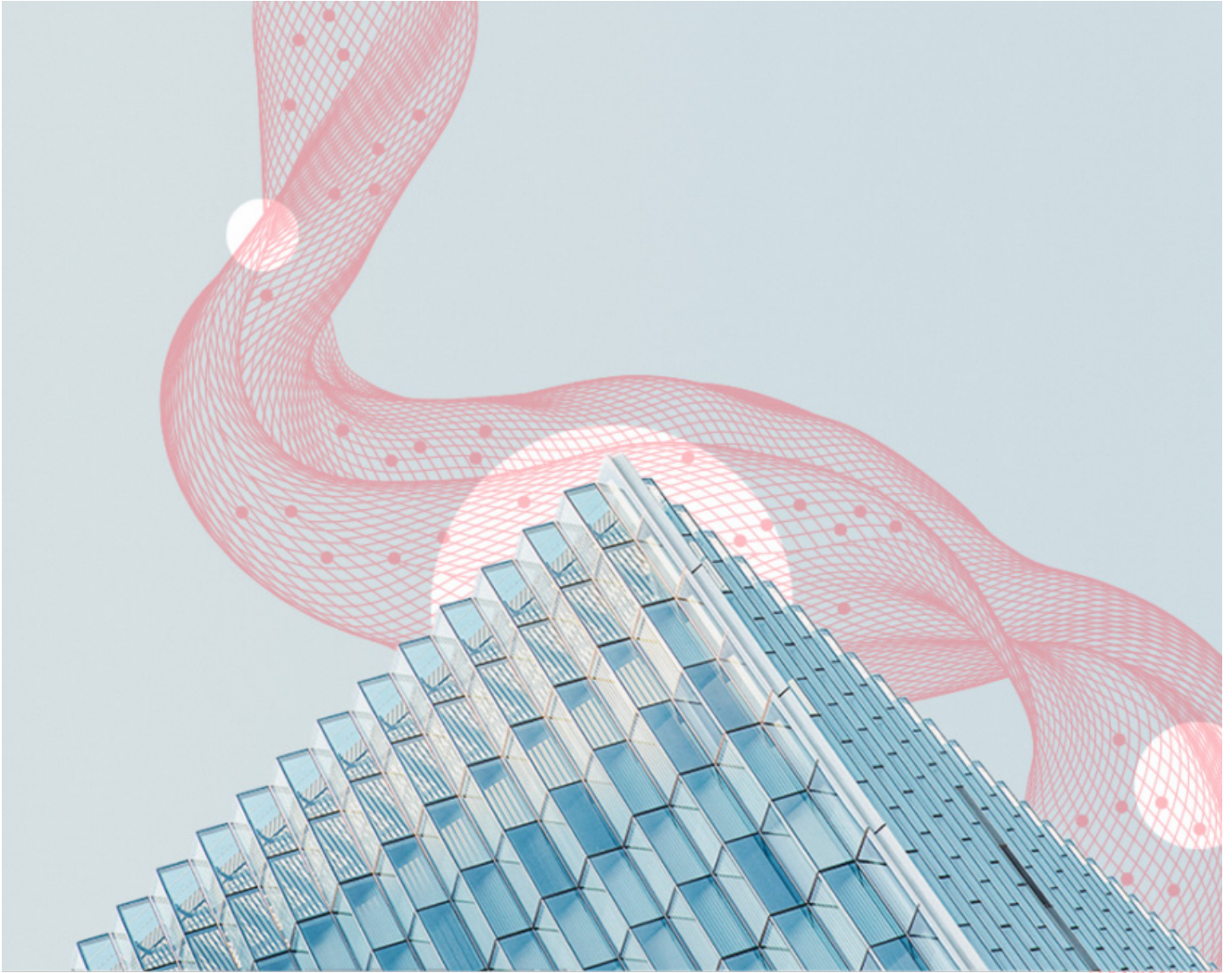


BRAINBOX AI[®]



Press Kit for BrainBox AI
Booth 193

About BrainBox AI

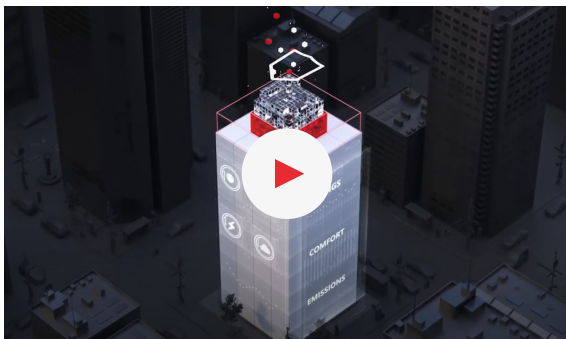
Founded in 2017, BrainBox AI was created to address the dilemma currently facing the built environment, its energy consumption and significant contribution to climate change. As innovators of the global energy transition, BrainBox AI's game-changing HVAC technology leverages autonomous AI to make buildings smarter, greener, and more efficient. Working together with our trusted global partners, BrainBox AI supports real estate clients in various sectors, including office buildings, hotels, commercial retail, grocery stores, airports, and more.

Headquartered in Montreal, Canada, a global AI hub, our workforce of over 150 employees, bring with them talent from all sectors with the common thread of being in business to heal our planet. BrainBox AI works in collaboration with research partners including MILA – Quebec AI Institute, the Institute for Data Valorization (IVADO) as well as educational institutions including McGill University.

On January 3, 2025, global climate innovator Trane Technologies (NYSE:TT) has acquired BrainBox AI. The acquisition further augments Trane Technologies' advanced building management and digital capabilities and represents a natural extension of the companies' existing collaboration which:

- Combines BrainBox AI's leading Artificial Intelligence technology with Trane Technologies' advanced building management and digital capabilities to meet fast-growing demand for sustainable, autonomous building solutions
- Accelerates and scales smart building technologies that reduce demand-side energy consumption and greenhouse gas (GHG) emissions

For more information visit brainboxai.com.



BrainBox AI ➤



The crucial meeting point ➤

About AI for HVAC Optimization

BrainBox AI Value Creation

Up to 40% reduction in carbon emissions

- Accelerate reduction in Scope 1 & 2
- Meet or exceed your ESG targets
- Access and track your unique emissions data
- Comply with energy efficiency and emissions limits

Up to 15% reduction in store OPEX/utility/maintenance costs

- Improve your OPEX across stores through HVAC energy cost reduction
- Decrease maintenance costs and service call
- Comply with energy efficiency and emissions limits

Up to 60% improvement in customer comfort and dwell time

- Improve air quality for customers and associates
- Improve customer experience and dwell time

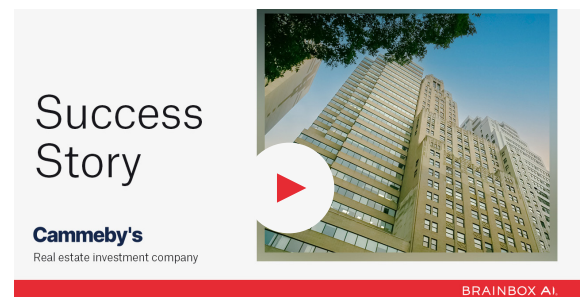
Up to 50% extension of equipment service life

- Reduce equipment runtime
- Increase ROI on existing assets and defer CAPEX for replacement

Small and medium sized buildings make up a significant part of the commercial building stock which accounts for nearly half of global energy usage. HVAC systems in buildings are responsible for 40% of this energy consumption, yet 30% is wasted due to inefficient operations. BrainBox AI's autonomous decarbonization solution measures, models, learns, and continuously optimizes your HVAC systems to reduce your retail footprint's operational emissions.



Dollar Tree Case Study ➤



Cammeby's Video Case Study ➤

About ARIA

ARIA provides a 360-degree view of your building's data.

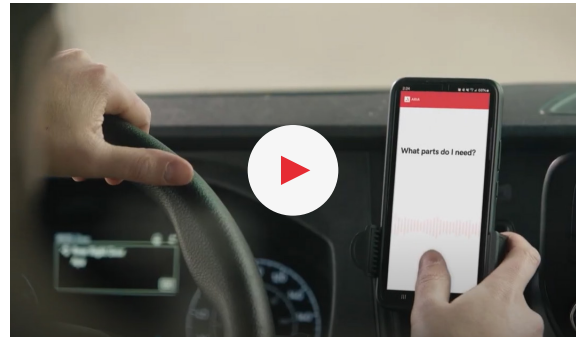
ARIA leverages diverse data sources (i.e. your energy bills, grid information, HVAC equipment data, etc.) and queries multiple LLMs (Large Language Models) through Amazon Bedrock to provide clients with precise and valuable information.

Together with BrainBox AI's core AI for HVAC technology, ARIA has momentous impact on building operations management, reducing HVAC energy costs by up to 25% and greenhouse gas emissions by up to 40%.

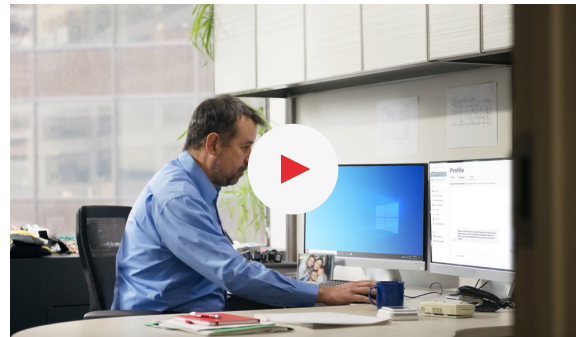
BrainBox AI holds a strong partnership with AWS. All of its solutions are built, delivered, and hosted on the AWS cloud. BrainBox AI was first introduced to Amazon Bedrock when it was asked to participate in their beta testing group in the summer of 2023.

How does ARIA work?

ARIA is a Generative AI-based technology that leverages the intelligence of multiple Large Language Models (LLMs), BrainBox AI's advanced algorithms, and building data. It combines our core AI for HVAC energy optimization tech with the capabilities of Generative AI, providing a comprehensive building management tool that offers AI-driven insights and conversational interaction, making complex data accessible and actionable.



Streamlined HVAC management ➤



Predictive weather response ➤



About ARIA

ARIA's key features include:

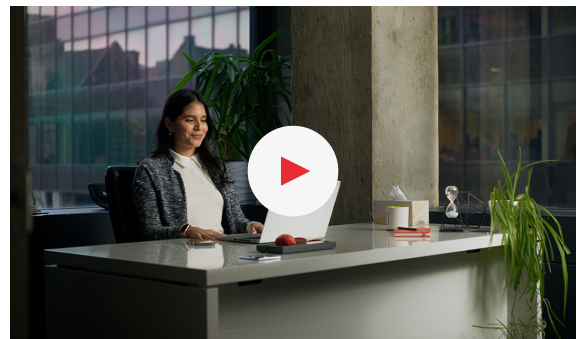
- **Reporting:** ARIA lets you instantly access, download, and share your building's data.
- **Troubleshooting:** ARIA pinpoints issues, identifies root causes, prioritizes repairs, and minimizes downtime.
- **Command execution:** Assign ARIA simple building management tasks like adjusting your HVAC schedules and setpoints.
- **Data visualization:** ARIA pulls from your live dashboards to help you better understand your building's data.
- **Decision-making:** ARIA provides real-time insights and recommendations for smarter building decisions.
- **Predictive maintenance:** ARIA prioritizes your alarms and sends them straight to you so you can anticipate future problems.

Is ARIA available now?

BrainBox AI is currently accepting requests from real estate owners interested in being part of their Beta Program. These organizations can register to be considered for the program on the BrainBox AI website. General availability of ARIA is expected by end of year.



Real-time diagnostics support ➤



Sustainable insights in a click ➤



About Cloud BMS

Empower your entire building management team with a scalable, AI-driven system that integrates seamlessly with existing infrastructure. Tailor views and controls to match the specific needs of different roles—whether it's high-level insights for decision-makers or detailed, actionable screens for operators. Deliver real-time optimization, insights, and control—all from the cloud—designed to grow with your team and your portfolio.

- Access from anywhere, anytime: Log into your BrainBox AI app from mobile or desktop browser to monitor, adjust, and control your building systems.
- Automate: Use the no-code logic builder to effortlessly create complex sequences for controlling equipment. Streamline schedules, setpoints, and controls across all systems to ensure consistency, enhance workflows, and significantly reduce the need for manual interventions.
- Enjoy portfolio-wide visibility: Centralize and standardize data from all your systems into a single pane of glass, enabling efficient monitoring and informed decision-making across your entire portfolio.

With built-in disaster recovery on the cloud side, BrainBox AI ensures uninterrupted operations even in the face of unforeseen events. Automatic backups and advanced cybersecurity safeguards provide peace of mind. For example, in the event of a hard disk failure, the latest database can be swiftly uploaded, restoring full functionality within minutes. In more critical scenarios,



Cloud Building Management System ↗

such as a fire in an IT closet, cloud backups ensure business continuity and rapid recovery. BrainBox AI keeps your systems resilient and your operations running smoothly, no matter the challenge.

The BrainBox AI Cloud BMS is part of our comprehensive suite of advanced facilities management solutions. It transforms building management with a cloud-based platform that delivers scalability, flexibility, and continuous oversight. This allows facility managers to save time, make more informed decisions, streamline workflows, reduce costs, and achieve operational goals.

CBMS and ARIA together help facility managers be more proactive by working with service providers to strategically prioritize equipment maintenance.

Combined, these two products help facility managers to be more proactive by working with service providers to strategically prioritize equipment maintenance, thereby unlocking new capabilities in building operations optimization.

Press Release

Trane Technologies Completes Acquisition of BrainBox AI ↗

SWORDS, Ireland — January 3, 2025 — Trane Technologies (NYSE: TT), a global climate innovator, announced that it has completed the acquisition of BrainBox AI, a pioneer in autonomous HVAC controls and generative Artificial Intelligence (AI) building technology. The acquisition was previously announced in a press release on December 18, 2024.

BrainBox AI uses advanced deep learning algorithms to predict building energy needs and automate HVAC systems, thus reducing energy consumption by up to 25% and reducing greenhouse gas (GHG) emissions by up to 40%. The acquisition builds on the companies' existing collaboration and combines BrainBox AI's leading Artificial Intelligence technology with Trane Technologies' advanced building management and digital capabilities to meet fast-growing demand for sustainable, autonomous building solutions.

"We are delighted to officially welcome BrainBox AI associates as we further expand upon our companies' complementary capabilities, technology and offerings," said Riaz Raihan, senior vice president and Chief Digital Officer of Trane Technologies. "We look forward to bringing our teams and technologies closer together as we help customers meet their business and sustainability goals through the power of AI and smart building technologies."

About Trane Technologies

Trane Technologies is a global climate innovator. Through our strategic brands Trane® and Thermo King®, and our environmentally responsible portfolio of products and services, we bring efficient and sustainable climate solutions to buildings, homes, and transportation. Learn more at tranetechologies.com.

About BrainBox AI

Founded in 2017, BrainBox AI was created to address the dilemma currently facing the built environment: its energy

consumption and significant contribution to climate change. As innovators of the global energy transition, BrainBox AI's game-changing HVAC technology leverages autonomous AI to make buildings smarter, greener and more efficient. Working together with our trusted global partners, BrainBox AI supports real estate clients in various sectors, including office buildings, hotels, commercial retail, grocery stores, airports and more.

Headquartered in Montreal, Canada, a global AI hub, our workforce of over 190 employees, bring with them talent from all sectors with the common thread of being in business to heal our planet. BrainBox AI works in collaboration with research partners including MILA – Quebec AI Institute, the Institute for Data Valorization (IVADO) as well as educational institutions including McGill University and The University of Montreal.

On January 3, 2025, global climate innovator Trane Technologies (NYSE:TT) acquired BrainBox AI. The acquisition further augments Trane Technologies' advanced building management and digital capabilities and represents a natural extension of the companies' existing collaboration. [LCS1]

Forward-Looking Statements

This news release includes "forward-looking statements" within the meaning of securities laws, which are statements that are not historical facts, including statements that relate to the acquisition of BrainBox AI and the anticipated impact of the transaction on the Company's strategic initiatives and sustainability commitments. These forward-looking statements are based on our current expectations and are subject to risks and uncertainties, which may cause actual results to differ materially from our current expectations. Factors that could cause such differences can be found in our Form 10-K for the year ended December 31, 2023, as well as our subsequent reports on Form 10-Q and other SEC filings. New risks and uncertainties arise from time to time, and it is impossible for us to predict these events or how they may affect the Company. We assume no obligation to update these forward-looking statements.



Press Release

ARIA: Virtual building engineer named one of TIME's Best Inventions ↗

MONTREAL - November 1, 2024 - BrainBox AI, a pioneer in autonomous and generative AI building technology, is thrilled to announce that its latest innovation, ARIA, has been recognized by TIME as one of the 2024 Best Inventions, in the Sustainability category. This honor acknowledges ARIA's groundbreaking contribution to reducing carbon emissions and improving energy efficiency in commercial buildings worldwide.

TIME's annual list highlights the 200 most innovative products and services that make the world better, smarter and more sustainable. ARIA was selected for its transformative first-of-its-kind approach leveraging generative AI technology to enhance building efficiency. By using a building's data and offering a 360-degree view of the facility including its systems and components ARIA assists building operators to make holistically informed decisions. BrainBox AI's AI Building Optimization solution was also recognized by TIME as one of the Best Inventions of 2020.

"The validation that our technology first received in 2020 as part of this esteemed list, stood as a global endorsement of our mission to keep pushing boundaries with our unique approach using AI in buildings to fight against climate change" said Jean-Simon Venne, Co-founder and Chief Technology Officer at BrainBox AI. "In light of this incredible achievement, ARIA represents the next chapter in our cause in the future of smart building solutions. We are humbled and proud to have been honored once again by TIME as we strive toward sustainability in the built environment."

To compile this year's list, TIME solicited nominations from TIME editors and correspondents around the world, and through an online application process, paying special attention to growing fields such as health care, AI, and green energy. TIME then evaluated each contender on a number of key factors, including originality, efficacy, ambition, and impact.

Of the new list, TIME's editors write: "The result is a list of 200 groundbreaking inventions (and 50 special mention inventions)—including the world's largest computer chip, a humanoid robot joining the workforce, and a bioluminescent

houseplant—that are changing how we live, work, play, and think about what's possible."

ARIA, the world's first virtual building engineer, is the next evolution of BrainBox AI's AI technology for commercial real estate. Launched in March 2024, it is powered by the latest generative AI technology with Amazon Bedrock. Much like the legendary partnership between Iron Man and Jarvis, ARIA introduces groundbreaking technology and innovation, positioning itself as an indispensable ally for facility managers. ARIA works seamlessly with existing building systems to optimize energy use in real-time, learning from occupant behavior and external environmental conditions.

Together with BrainBox AI's core AI Building Optimization technology, ARIA has a momentous impact on building operations management, reducing HVAC energy costs by up to 25% and greenhouse gas emissions by up to 40%. This innovation not only addresses the industry's growing demand for energy-efficient solutions but also aligns with global sustainability goals for the built environment. In fact, according to the IEA, commercial buildings account for approximately 38% of global greenhouse gas emissions annually, underscoring the need for BrainBox AI's suite of decarbonization solutions which directly addresses this challenge and supports building owners in their journey toward net zero and carbon neutrality.

As part of the TIME Best Inventions list, ARIA will be featured alongside other world-changing innovations. The recognition highlights the importance of sustainability in today's global landscape and underlines BrainBox AI's role as a leader in this field.

BrainBox AI is dedicated to continuing the advancement of AI-driven solutions that have a meaningful impact on energy efficiency and climate change. BrainBox AI invites you to discover and experience ARIA firsthand through these [engaging short videos](#).

The full 2024 TIME Best Inventions list is available [here](#).

Press Release

[BrainBox AI: Canada's Companies-to-Watch 2024 Technology Fast 50](#) ↗

MONTREAL, November 6, 2024 – BrainBox AI, a pioneer in autonomous and generative AI building technology, today announced it is the recipient of the Companies-to-Watch award in the 2024 Technology Fast 50™ program. This coveted award recognizes emerging Canadian companies for their exceptional revenue growth.

“Our company’s collective commitment to building breakthrough, market-leading technology paved the way for this award.” said Francis Trudeau, Chief Financial Officer at BrainBox AI. “It acknowledges our hard work to make a global impact and our mission to make buildings smarter, greener, and more efficient. This achievement highlights BrainBox AI’s focus and continuous efforts to deliver value to stakeholders, push boundaries within our industry, and drive sustained success in our mission to help save the planet with AI.

BrainBox AI’s AI HVAC Optimization solution leverages internal and external data, proprietary algorithms, and artificial intelligence to redefine how heating, ventilation, and air conditioning (HVAC) systems operate in buildings. Powered by autonomous AI, it maps the numerous zones of a commercial building, learns, and quickly acts on that data to predict future states, and modulate pieces of equipment autonomously. For example, by predicting the temperature in a retail store based on historical data and external datasets like weather, BrainBox AI can decrease energy costs by up to 25%, reduce the carbon emissions by up to 40%, and improve customers’

comfort by up to 60%. It transforms an HVAC system from one that solely reacts to thermostat readings with no information relating to weather or the energy grid, to one that considers the building’s external environment to make much smarter decisions. BrainBox AI also recently introduced ARIA, its generative AI-powered virtual building assistant, developed on Amazon Bedrock. Designed as the ultimate companion to facility managers, ARIA’s intuitive two-way interactive capability can directly advise future actions toward the most efficient and effective management of their buildings.

The Companies-to-Watch category is a ranking of Canadian technology companies with the potential to be future Technology Fast 50 category candidates based on their revenue growth percentage over their last three years of operation. This year’s winners were required to have a minimum revenue of \$50,000 in 2021 and \$2.5 million in 2023.

Executive Biography

Sam Ramadori
Chief Executive Officer



Sam Ramadori oversees the execution of BrainBox AI's growth-oriented business plan, leads the senior management team, and manages investor relations. As a sustainability enthusiast, he brings a passion for driving impactful change, particularly towards fighting the climate crisis. With a strong belief that only scalable and impactful solutions will get us there, Sam views it as a privilege to be working with the team at BrainBox AI as they execute on their vision to save the planet with AI.

Sam's background includes private equity investing and senior management roles, with extensive experience supporting management teams in the development and implementation of their commercialization strategies. Before joining BrainBox AI in 2019, Sam held senior operational, investor, and deal execution roles at private equity firms, including Walter Capital Partners and Brookfield Capital Partners. He has an MBA from the Ivey School of Business as well as degrees in common law and civil law from the University of Ottawa.



Take optimal action to reduce energy use and emissions ↗

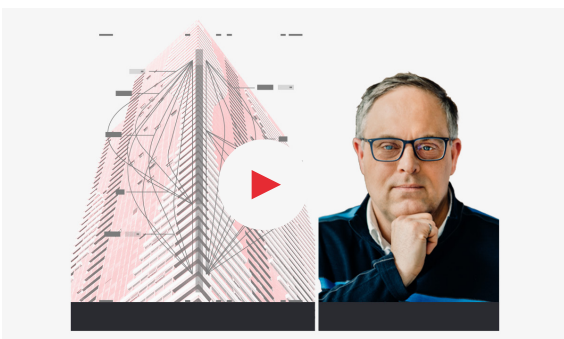
Executive Biography

Jean-Simon Venne
Co-Founder and Chief Technology Officer



Jean-Simon Venne is a co-founder and CTO of BrainBox AI. As a technology expert specializing in the fast and efficient migration of technological innovations to commercial applications, Jean-Simon has over 25 years of experience developing and implementing new technology to solve long-standing commercial issues in the fields of telecommunications, biotechnology, and energy-efficiency.

Prior to joining BrainBox AI, he was responsible for the successful integration of M2M technology in over 200 Smart Buildings across North America, Europe, and the Middle East. Jean-Simon holds a B.Eng. in Industrial Engineering from École Polytechnique de Montréal and a Certificate in Logistics from the University of Georgia Tech.



Pioneering physics-informed neural networks ↗

Executive Biography

Omar Tabba
Chief Product Officer



Omar Tabba leads the product management and solution engineering functions at BrainBox AI. He has over 20 years of experience in the smart building space and has held technical, sales and executive roles. Prior to joining BrainBox AI, he led the digital solutions team at the General Electric Current business unit, where he supported the sale of Current's digital solutions to Fortune 200 companies as well as the product, marketing, and business development functions. Before joining GE, Omar co-founded YWire Technologies, a venture backed lighting control startup.

A patent holder, Omar has applied building automation and energy management systems across multiple vertical markets (e.g. retail, commercial office, education) and in portfolios ranging from one building to several thousand.



Making virtual autonomous agents your reality ↗

Media Contact

Liz Culley-Sullo
Director, Public Relations
l.culley-sullo@brainboxai.com

BrainBox AI Inc.
2001 boul Robert-Bourassa
Suite 840
Montreal, QC H3A 1A6
Canada