

CHAD EVERETT WOODS

Inventor · Founder · Technology Architect · Investor · Builder

Building infrastructure for the intelligent age.

Chad Everett Woods is an American inventor, technology founder, and entrepreneur building at the intersection of artificial intelligence, robotics, semiconductor architecture, advanced memory, and next-generation computing infrastructure.

He is the founder of 211IQ Inc., a technology company pursuing an ambitious objective: creating an intelligent operating and hardware infrastructure capable of connecting AI with machines, robots, specialized computing systems, and real-world environments.

Woods' work is built around a central conviction: The next revolution in artificial intelligence will not come from intelligence alone. It will come from fundamentally changing how intelligence moves, remembers, computes, and acts.

INVENTING BEYOND THE SOFTWARE LAYER

At the center of Woods' semiconductor work is PFAM™ — Polarity-Flux Attention Memory, a proposed compute-in-memory architecture designed to attack one of modern AI's fundamental constraints: the enormous cost of repeatedly moving data between memory and processors.

Rather than accepting conventional memory and compute boundaries as permanent, PFAM explores whether portions of transformer attention computation can be moved closer to — or directly into — memory. The architecture under development incorporates concepts involving FeFET-based computation, transformer attention acceleration, KV-cache operations, chiplet integration, UCIe connectivity, and retrofit approaches for SRAM, DRAM/HBM and GPU-class memory systems.

Woods' patent work extends beyond PFAM into advanced semiconductor thermal infrastructure, including architectures involving diamond thermal management, dynamic thermal control, heterogeneous semiconductor integration, neuromorphic and advanced-computing applications. His objective is larger than designing another chip. It is to rethink the infrastructure underneath artificial intelligence.

211IQ: BUILDING AN OPERATING LAYER FOR INTELLIGENT MACHINES

Through 211IQ Inc., Woods is developing a broader AI and robotics ecosystem intended to allow intelligence to operate across different machines without requiring every robot or device to be engineered around a completely separate intelligence stack.

The 211IQ vision combines software, specialized hardware and secure machine interfaces into a common architecture. Development concepts include the 211IQ Universal Robot Adapter, intelligent computing nodes, voice interfaces, robotics runtime technology, secure command architectures, proprietary language/compiler technology, and hardware integration designed to bridge AI systems with multiple robotic platforms.

The long-term thesis is straightforward but enormous: AI should not merely answer questions. It should be capable of securely operating the physical world.

AN INVENTOR'S APPROACH

Woods approaches technology from the perspective of architecture rather than individual products. Instead of asking how to make an existing system incrementally faster, he repeatedly asks a more fundamental question: What assumption can be removed entirely?

If moving memory consumes enormous energy, move computation toward the memory. If heat limits computing density, redesign the thermal architecture. If every robot speaks a different hardware language, create an abstraction layer between intelligence and the machine. If today's computing architecture forces information to travel continuously, explore architectures in which computation travels toward knowledge instead. This systems-level philosophy connects Woods' work across semiconductors, AI, robotics and computing infrastructure.

CAPITAL, OWNERSHIP & INSTITUTION BUILDING

Woods' ambitions extend beyond invention. His work includes building corporate and investment structures intended to transform intellectual property and operating businesses into durable institutions.

His ventures include 211IQ Inc., House of Surety SPV Ltd., and the Everett Woods Foundation, alongside intellectual-property structures associated with the MindFuel XL Private Trust. Through these organizations, Woods is developing a model that connects invention, ownership, commercialization, investment and philanthropy rather than treating them as unrelated pursuits.

His philosophy is that transformative intellectual property should create more than products. It should create institutions capable of surviving their founders.

BUILDING THE NEXT CHAPTER

Woods' current work represents a convergence of several disciplines normally pursued independently: artificial intelligence, robotics, semiconductors, advanced memory, thermal engineering, secure machine communication, intellectual property, and capital formation. The common thread is infrastructure.

Woods is not attempting to predict exactly what the intelligent world will look like decades from now. He is working to build pieces of the infrastructure that could make that world possible.

From machines capable of interacting with general-purpose intelligence, to memory architectures designed around AI workloads, to new approaches for controlling the heat and data movement that constrain modern computing, his work is centered on problems that become increasingly important as artificial intelligence moves from software into the physical world.

And despite the scale of the vision, Woods' story remains in its building phase. The prototypes, validation, engineering, manufacturing and commercialization ahead will determine which of these ideas ultimately become enduring technologies. That is precisely where Woods chooses to operate: at the point where an idea must become architecture, architecture must become engineering, and engineering must ultimately prove itself in the real world.

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Founder, 211IQ Inc.

Inventor, PFAM™ — Polarity-Flux Attention Memory

Founder, House of Surety SPV Ltd.

Founder, Everett Woods Foundation

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