

## Leadership Profile

### Dr. Ayana Moretti – Founder & Chief Executive Officer

Dr. Ayana Moretti is the visionary force behind Sentience Dynamics. Her academic background straddles the disciplines of artificial intelligence, philosophy, and neuroscience, with dual PhDs from **MIT (Computer Science)** and **Oxford University (Philosophy of Mind)**. She is best known for her groundbreaking work on *Autonomous Cognitive Architectures* and *Ethical Theory of Artificial Agents*.

Before founding Sentience Dynamics, she was Director of the **Agent Systems Group at DeepMind**, where she led initiatives focused on long-term reasoning and embodied goal alignment. She is a published author of over 60 peer-reviewed papers and has delivered keynote addresses at NeurIPS, the World Economic Forum, and the UN's AI for Good Summit.

A fierce advocate for responsible AI, Dr. Moretti is active in several global AI governance coalitions and was instrumental in co-developing the **Sentient Systems Transparency Index (SSTI)**.

**Leadership Quote:** “True autonomy is not about independence, but intelligent interdependence — between agents, environments, and the people we serve.”

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### Rajiv Banerjee – Chief Technology Officer

Rajiv is an engineering polymath with 25+ years in cognitive architectures, neural-symbolic reasoning, and scalable agent platforms. A former VP of Engineering at **OpenCortex**, Rajiv co-designed the **Cognitive Contract Networks (CCN)** that are still used by international logistics and emergency response agencies.

He is the architect behind **Prisma Core**, the company's modular agentic AI platform. Rajiv is passionate about building systems that blend efficiency with reasoning depth and is known for his commitment to reproducible science and open-source ethics. He holds an M.S. in Artificial Intelligence from Carnegie Mellon and has contributed to multiple IETF standards on intelligent autonomous systems.

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### Dr. Lina Volkova – Chief Ethics & Policy Officer

Dr. Volkova leads the ethical and legal framework design for all Sentience Dynamics products. She holds a J.D. from Yale Law School and a Ph.D. in Machine Ethics from the University of Amsterdam. Prior to joining the company, she served on the European Commission's High-Level Expert Group on AI and helped draft the **AI Liability Directive**.

Her work focuses on **intent-verification mechanisms**, **human-AI interface accountability**, and **legally-compliant autonomy**. Dr. Volkova is a frequent advisor to UNESCO, IEEE, and the World Bank, helping shape cross-border AI policy. She spearheaded the **Ethics Engine** project — the first modular ethical reasoning layer for agentic AI systems.

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## Melissa Huang – Vice President of Product & Partnerships

Melissa oversees strategic product integration and manages global deployment partnerships across sectors. She previously led enterprise strategy at **Unity Technologies**, where she coordinated large-scale immersive learning platforms for STEM education.

With degrees in both **Systems Engineering (Stanford)** and **Business Innovation (INSEAD)**, Melissa is known for uniting technical innovation with real-world business needs. She is the architect of the **Living Labs Initiative**, enabling Sentience Dynamics agents to be tested in real-time urban, scientific, and environmental contexts.

Her work ensures that AI agents don't remain theoretical but have measurable human impact, particularly in climate tech, urban planning, and public health.

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## Dr. Kamal Idris – Chief Scientific Officer

A theoretical physicist-turned-AI-researcher, Dr. Idris brings a deep systems-thinking approach to cognitive model design. He joined Sentience Dynamics from the Max Planck Institute, where he led efforts in agent-based modeling for complex adaptive systems.

Dr. Idris is credited with advancing the **Meta-Self-Awareness Layer** that enables Sentience Dynamics' agents to not only reflect on their own goals but adapt their strategies based on historical success/failure patterns. He holds a PhD in Quantum Systems Modeling and serves on the advisory board for the Global Alliance for Responsible AI Research.

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## Board of Directors

The Board of Directors at Sentience Dynamics includes a diverse group of industry leaders, technologists, ethicists, and investors who guide the strategic direction of the company, ensuring innovation is balanced with accountability and purpose.

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### 1. Dr. Ayana Moretti – Chairwoman of the Board

Founder and CEO of Sentience Dynamics. Provides the strategic vision and technological roadmap for the company.

### 2. Dr. Maria Esteban – *Independent Director, AI Safety Expert*

Director of the Global Alignment Institute and former chief researcher at OpenAI's Ethics Division. Maria brings expertise in formal verification, value learning, and public trust in autonomous agents.

### 3. Jean-Paul Roché – *Investor & Venture Partner*

Managing Partner at **Crescendo Capital**, an early-stage fund specializing in AI and cognitive computing startups. He offers deep insights into global markets and investor relations.

#### **4. Professor Angela Dlamini – *Independent Director, Social Impact Technologist***

Professor of Digital Ethics at the University of Cape Town. A leading thinker on the socio-political impacts of agentic systems in emerging economies and an advocate for AI inclusivity.

#### **5. Takuya Morimoto – *Director, Industry Strategy***

Former CTO at **Hitachi AI Group**, Takuya provides insights into industrial applications of autonomous agents, especially in energy, transportation, and manufacturing sectors in Asia.

#### **6. Dr. Jamal Singh – *Legal & Policy Advisor***

An international law expert and senior consultant to the United Nations on AI treaties and digital sovereignty. He plays a pivotal role in helping Sentience Dynamics navigate global compliance and regulatory harmonization.

#### **7. Elena García-Bosch – *Head of ESG & Sustainability Committee***

A sustainability entrepreneur and former policy analyst at the European Parliament, she chairs the company's ESG committee and oversees environmental impact of large-scale AI deployments.