

# Quantum computing pioneers join the newly constituted Consultative Board of Alice & Bob

*Daniel Gottesman, David DiVincenzo, John Martinis, and Yasunobu Nakamura to advise on Alice & Bob's long-term roadmap and prioritization of upcoming milestones*

PARIS, FRANCE, February 21, 2024 /EINPresswire.com/ -- [Alice & Bob](#), a leading hardware developer in the race to fault tolerant quantum computers, today announced the composition of its newly constituted Consultative Board, a counsel of four pioneers of quantum computing. Alice & Bob's Consultative Board members include Daniel Gottesman, David DiVincenzo, John Martinis, and Yasunobu Nakamura.



Alice & Bob's scientific leadership and advisors, from left to right: Mazyar Mirrahimi, Philippe Campagne-Ibarq, Zaki Leghtas, John Martinis, Raphael Lescanne, Jérémie Guillaud, Benjamin Huard, Emmanuel Flurin, Yasunobu Nakamura, David DiVincenzo and Séba

"Alice & Bob has developed a very novel approach to quantum error correction which holds the prospect for a breakthrough in high precision," David DiVincenzo said. "I am hopeful that my advice will contribute to them achieving a uniquely capable quantum computer."

Below are brief backgrounds on the company's distinguished advisory board members:

- Pr. Daniel Gottesman, known for the Gottesman-Knill Theorem, was the first to prove that quantum error correction codes could be used to achieve a fault tolerant quantum computer, using specific techniques and architectures to correct for quantum systems that are noisy and prone to errors.
- Pr. David DiVincenzo first formalized the "DiVincenzo Criteria," the five minimal requirements that still today define what can be called a quantum computer, as an IBM researcher in 1996.
- Pr. John Martinis was the lead author of Google's quantum supremacy paper published in 2019, possibly the most famous quantum experiment to date.



These are people used to asking tough questions and providing critical insights into the industry that might challenge the most robust of roadmaps."

*Jérémie Guillaud, Chief of Theory at Alice & Bob*

- Pr. Yasunobu Nakamura is one of the fathers of the superconducting qubit. He was the first to control a Cooper pair box, the first superconducting qubit.

"The combined depth of experience from the giants whose work we stand upon today serves to challenge and refine our long-term roadmap," said Raphael Lescanne, CTO and Co-founder of Alice & Bob. "The relative distance of the Consultative Board members from the cat qubit paradigm allows us to take a step back and analyze our roadmap

with a different perspective."

"Alice & Bob has many original ideas for advancing superconducting quantum computing technology both at the architecture and device levels. I am excited to discuss with the team about the path towards the future." Said Yasunobu Nakamura, echoed by John Martinis who claimed: "Alice & Bob is working on a novel approach to quantum error correction that needs to be seriously investigated"

Alice & Bob is also advised by a closer Scientific Board, made up of five leading Cat Qubit experts, who meet with the company's technical leadership twice a month to solve day-to-day research challenges. The complementary Consultative Board, however, focuses on higher-level discussions that enable the prioritization of the next scientific milestone to be tackled.

"Meeting with a consultative board comprising top quantum computing experts is a growth opportunity" said Jérémie Guillaud, Chief of Theory at Alice & Bob. "These are people used to asking tough questions and providing critical insights into the industry that might challenge the most robust of roadmaps."

#### About Alice & Bob

Alice & Bob is a start-up based in Paris and Boston whose goal is to realize the first universal, fault-tolerant quantum computer. Founded in 2020, Alice & Bob has already raised 30M€ in funding, hired over 80 employees, and demonstrated experimental results surpassing those of technological giants like Google or IBM. Alice & Bob specializes in cat qubits, a technology pioneered by the company's founders and later adopted by Amazon. Demonstrating the power of its cat architecture, Alice & Bob recently showed it could reduce hardware requirements to build a large-scale useful quantum computer by up to 200 times compared to competing approaches.

Luke Keding

HKA Marketing Communications

+1 315-575-4491

[email us here](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/690077422>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.