

## Enabling quantum computers, networks and communication with high-performance single-photon detectors

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Photons are key enablers across the full spectrum of quantum technologies, including quantum communication and networking, quantum random number generation, and photonic quantum computing. High-performance single-photon detectors, developed using diverse technological approaches, are fundamental to powering these platforms. In this presentation, I will focus on SNSPDs and SPADs, highlighting a few selected applications. Additionally, I will outline IDQ's collaborative approach to advancing state-of-the-art single-photon detector technology.

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