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How Canada and the world are using open-source content to teach quantum computing

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The rapid growth of the quantum industry has brought about a shift in the need to efficiently train the next generation of scientists and engineers, to address the challenges of further developing quantum computers. As part of its multi-pronged approach to drive the quantum computing industry forward and address the demand for trained quantum specialists, Xanadu has been collaborating with professors in nearly 60 universities worldwide (over 15 in Canada) to incorporate practical quantum computing education using PennyLane (Xanadu's open-source software library for quantum programming) in undergraduate and graduate courses. We present an analysis of how quantum computing is being taught across Canada and around the world, and the impact of experiential learning in quantum computing using open-source resources.

Keyword-1

Keyword-2

Keyword-3

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