



This certifies that

Chalongraj Ken Phongpharnich

has successfully completed Qubit by Qubit's 2020-2021
Introduction to Quantum Computing Course

sponsored by IBM Quantum

This course took place from October 2020 to May 2021. Students developed a foundational understanding of quantum computing, with topics including introductory linear algebra, coding with Qiskit, quantum mechanics, quantum algorithms, and quantum applications.



IBM Quantum

Handwritten signature of Liz Durst in black ink.

Liz Durst
Director, IBM Quantum & Qiskit
Community

Handwritten signature of Kiera Peltz in black ink.

Kiera Peltz
Executive Director, Qubit by Qubit
Founder, The Coding School