Robert Loredo

QUANTUM COMPUTING AND ENTREPRENEUR

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Professional Summary

Accomplished educational leader and thought leader with 20+ years of experience transforming complex technical concepts into accessible learning experiences for global audiences. Proven track record of building and mentoring large-scale educational networks, having led 300+ quantum computing ambassadors worldwide while developing comprehensive curricula and training programs across diverse industries. Distinguished author of two best-selling technical books and holder of 270+ patents, demonstrating exceptional research capabilities and innovative thinking essential for modern STEM education. Expertise spans curriculum development, instructional design, educational technology integration, and strategic program development, with a demonstrated ability to translate cutting-edge research into practical learning applications. Successfully designed and delivered customized educational experiences that have driven multimillion-dollar business outcomes, showcasing the ability to align educational initiatives with real-world impact and stakeholder needs.

Experience

IBM | IBM Quantum Ambassador Global Lead and Global Quantum Strategist   2020 - 2025

- **Global Educational Leadership:** Built and mentored a worldwide network of 300+ quantum computing ambassadors, developing comprehensive training programs and educational frameworks that enabled effective knowledge transfer to diverse audiences across multiple industries and skill levels

- **Curriculum Development and Instructional Design:** Created specialized quantum computing syllabi and educational content tailored to various industries (finance, healthcare, automotive, academia), demonstrating expertise in translating complex technical concepts into accessible learning materials

- **Thought Leadership and Publishing:** Authored two best-selling books on quantum computing education, establishing credibility as a subject matter expert and demonstrating ability to communicate advanced technical concepts to broad audiences through multiple mediums

- **Strategic Educational Consulting:** Collaborated with industry leaders and government entities to design quantum workforce development initiatives and educational strategies, showcasing ability to align educational programs with real-world economic and security needs

- **Client Education and Training:** Designed and delivered customized educational experiences for enterprise clients, resulting in successful multimillion-dollar contract acquisitions by effectively communicating value propositions and technical capabilities

IBM | Watson Product Lead and Architect   2011 - 2020

- **Technology Integration in Learning Systems:** Designed and implemented machine learning solutions for support engineering tools, demonstrating expertise in educational technology and automated learning systems that served thousands of global clients

- **Scalable Educational Solutions:** Developed intelligent routing systems and chatbots that enhanced learning experiences and knowledge accessibility across 100+ products, showcasing ability to create technology-enhanced educational environments

- **Cross-Functional Team Leadership:** Led technical teams in developing educational support tools, demonstrating collaborative leadership skills essential for academic environments

IBM | Master Inventor and Patent Engineer   **2009 - 2011**

- **Research and Knowledge Creation:** Authored and filed 270+ patents across diverse technical domains including machine learning, quantum computing, education technology, and sustainability, demonstrating exceptional research capabilities and innovative thinking

- **Knowledge Transfer and Commercialization:** Developed multimillion-dollar intellectual property packages for client licensing, showcasing ability to translate research into practical applications and communicate complex innovations to stakeholders

- **Interdisciplinary Expertise:** Conducted research across multiple fields (gaming, cloud computing, networking, cryptography), demonstrating the broad technical knowledge base essential for modern STEM education

IBM | Mobile and Forms Developer   **2004 - 2009**

- **Early Technology Adoption and Innovation:** Pioneered enterprise application development for emerging mobile platforms (BlackBerry, Nokia), demonstrating adaptability and forward-thinking approach crucial for educational technology integration

- **User Experience Design:** Created intuitive mobile applications for enterprise users, showcasing understanding of how to design technology solutions that enhance user learning and productivity

Education

Florida International University, PhD Computer Science   **Expected: 2026**

Topic: Machine Learning and Quantum Computational Science, Neuroscience

University of Miami, MS Computer & Electrical Engineering   **2004**

Major: Computer & Electrical Engineering | Minor: Machine Learning

University of Miami, BS in Computer Engineering & IT   **2002**

Major: Computer Engineering & IT | Minor: Electrical Engineering

Skills, Certifications, and Awards

- Education
- Problem solving
- Communication
- Leadership
- Qiskit
- Quantum-Safe
- Python / N8N

- Javascript (Node.JS)
- Visual Studio Code
- 270+ Patents
- Publications: https://scholar.google.com/citations?user=jyceGwoAAAAJ&hl=en
- Certifications: https://www.credly.com/users/robert-loredo/