



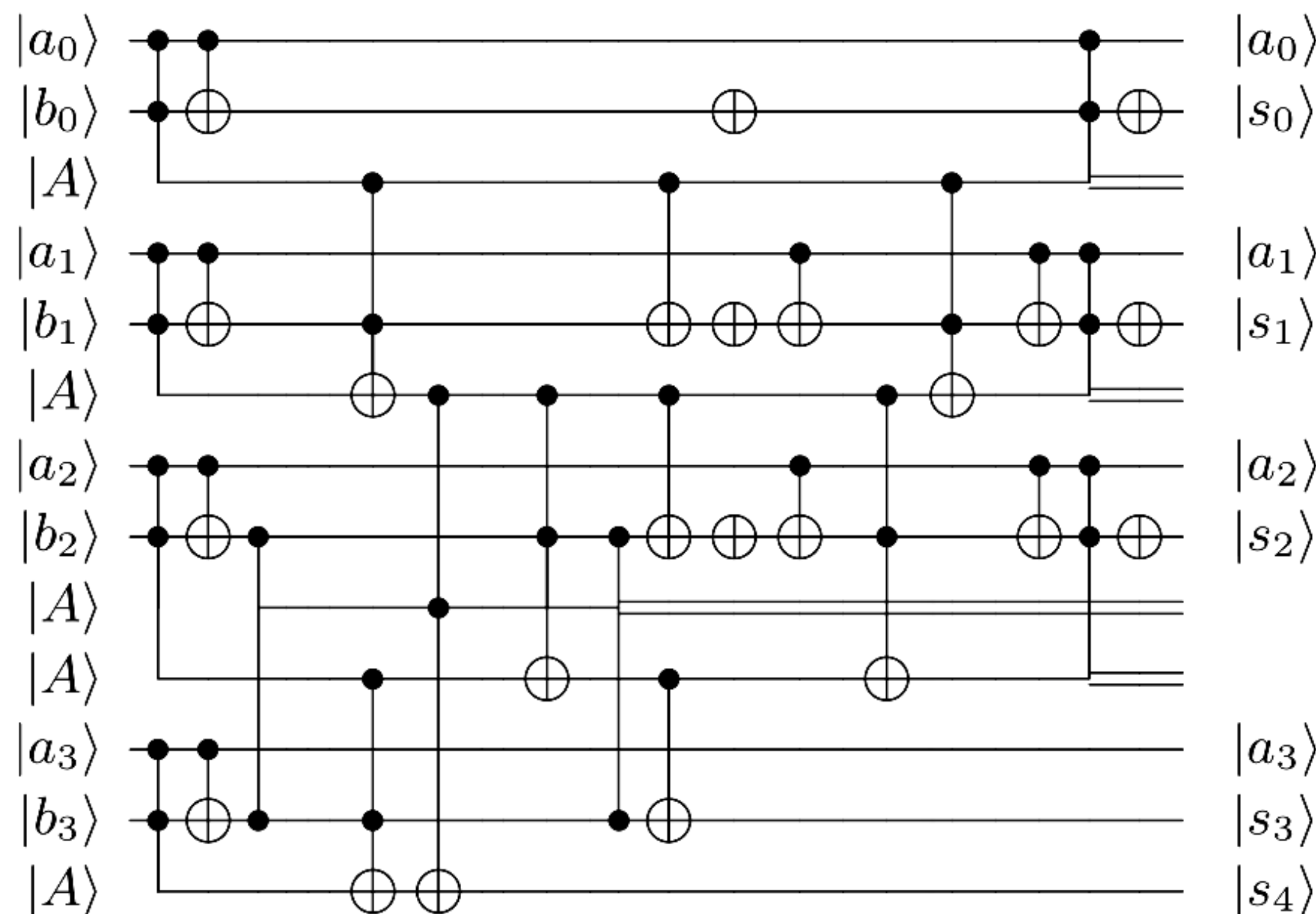
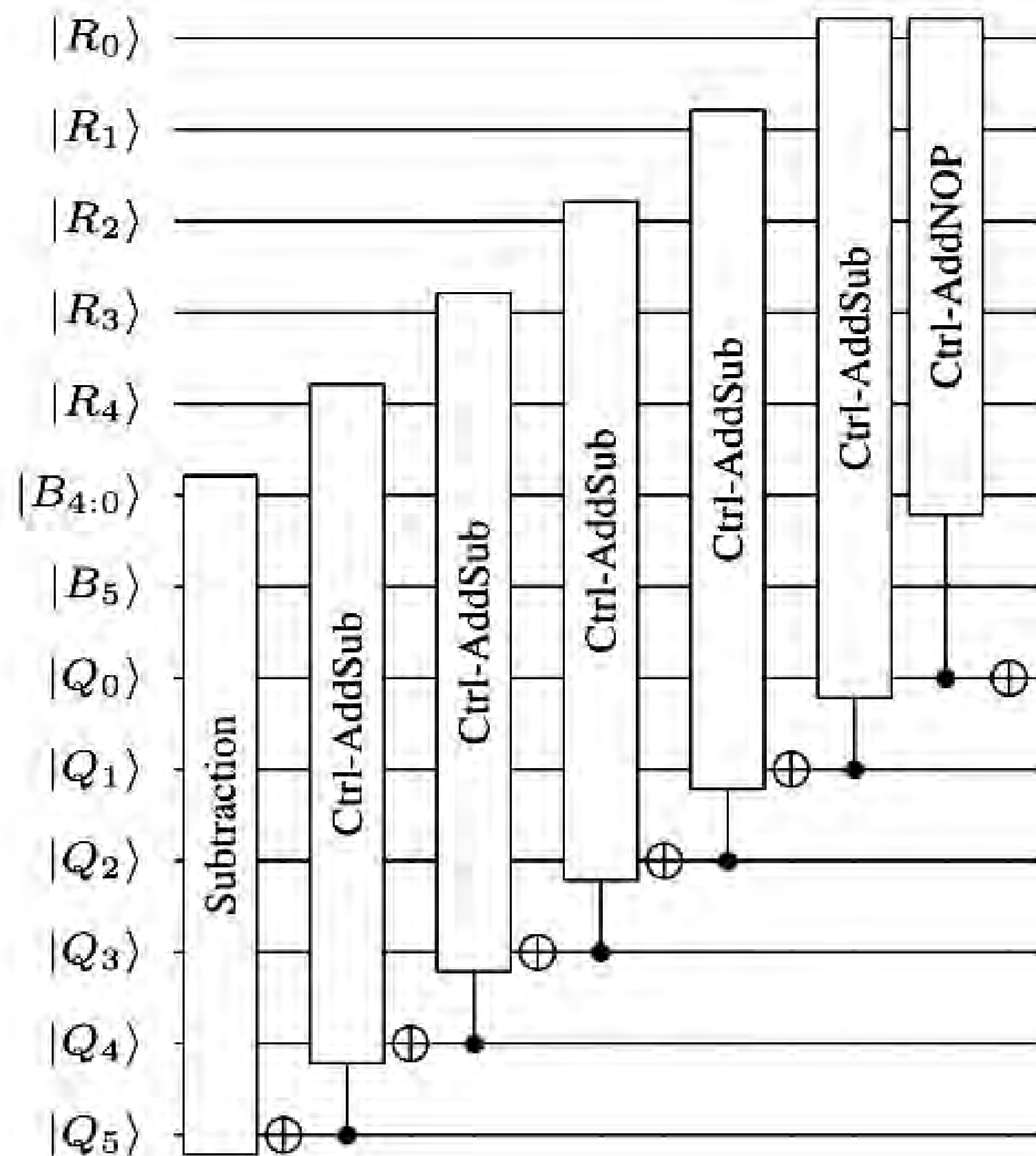
Emerging Technology and VLSI Research Group



at the Department of Electrical Engineering, University of North Texas

Research Areas

- Emerging Computing Paradigms
- Quantum Computing
- Quantum Image Processing
- Circuits and VLSI
- Computer Organization and Design
- Power Engineering



Sample Publications

- K. Kakaraparty, E. Muñoz-Coreas and I. Mahbub, "The Future of mm-wave Wireless Communication Systems for Unmanned Aircraft Vehicles in the Era of Artificial Intelligence and Quantum Computing," 2021 IEEE MetroCon, 2021, pp. 1-8, doi: 10.1109/MetroCon54219.2021.9666048.
- H. Thapliyal and E. Muñoz-Coreas, "Design of Quantum Computing Circuits," in IT Professional, vol. 21, no. 6, pp. 22-26, 1 Nov.-Dec. 2019. doi: 10.1109/MITP.2019.2943134 Available at: <https://ieeexplore.ieee.org/document/8896152>
- Muñoz-Coreas, Edgard, and Himanshu Thapliyal. "T-count and Qubit Optimized Quantum Circuit Design of the Non-Restoring Square Root Algorithm." ACM Journal on Emerging Technologies in Computing Systems (JETC) 14.3 (2018): 1-15. available at: <https://dl.acm.org/citation.cfm?id=3264816>