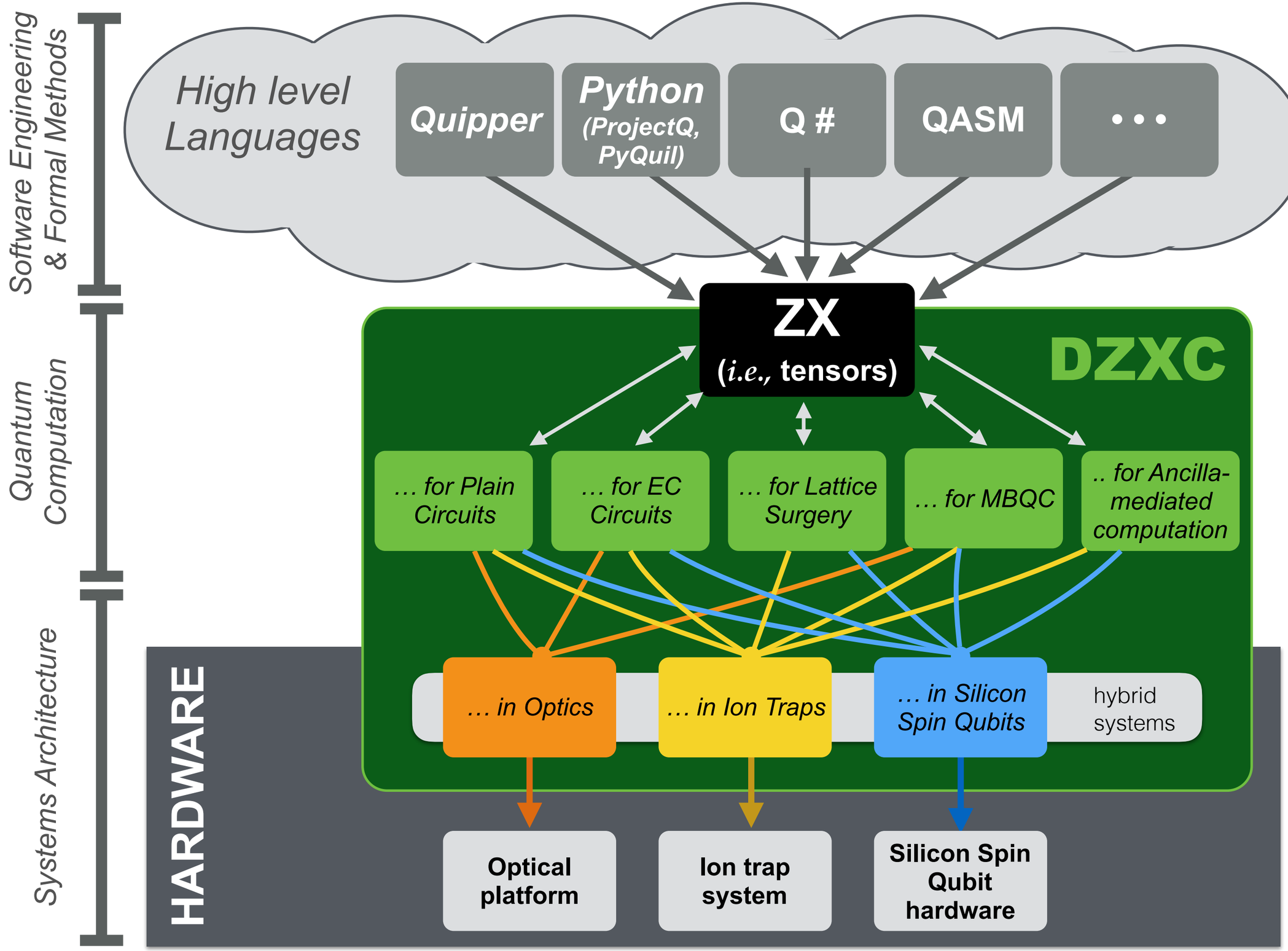
Software Engineering & Formal Methods
Quantum Computation
Systems Architecture
High level Languages
Quipper
Python (ProjectQ, PyQuil)
Q #
QASM
• • •
ZX
(i.e., tensors)
DZXC
… for Plain Circuits
… for EC Circuits
… for Lattice Surgery
… for MBQC
.. for Ancilla-mediated computation
… in Optics
… in Ion Traps
… in Silicon Spin Qubits
hybrid systems
HARDWARE
Optical platform
Ion trap system
Silicon Spin Qubit hardware