



## System And Method For Controlling Superconducting Qubits

[View U.S. Patent No. 10,572,816 in PDF format.](#)

**WARF: P180273US01**

Inventors: Maxim Vavilov, Konstantin Nesterov, Vladimir Manucharyan, Ivan Pechenezhskiy, Chen Wang

---

### The Invention

A system and method for controlling qubits to perform quantum computation is provided. In some aspects, the system includes at least one superconducting quantum processor comprising a multi-qubit architecture having coupled qubits that are described by an anharmonic energy spectrum. The system also includes a microwave source connected to the at least one superconducting quantum processor, and configured to provide a microwave irradiation to at least one of the coupled qubits in the multi-qubit architecture to perform a gate on the at least one of the coupled qubits. The system further includes a controller configured to direct the microwave source to provide the microwave irradiation to at least one of the coupled qubits in the multi-qubit architecture.

### Additional Information

#### For More Information About the Inventors

- [Maxim Vavilov](#)

#### Tech Fields

- [Information Technology : Hardware](#)

For current licensing status, please contact Emily Bauer at [emily@warf.org](mailto:emily@warf.org) or 608-960-9842