

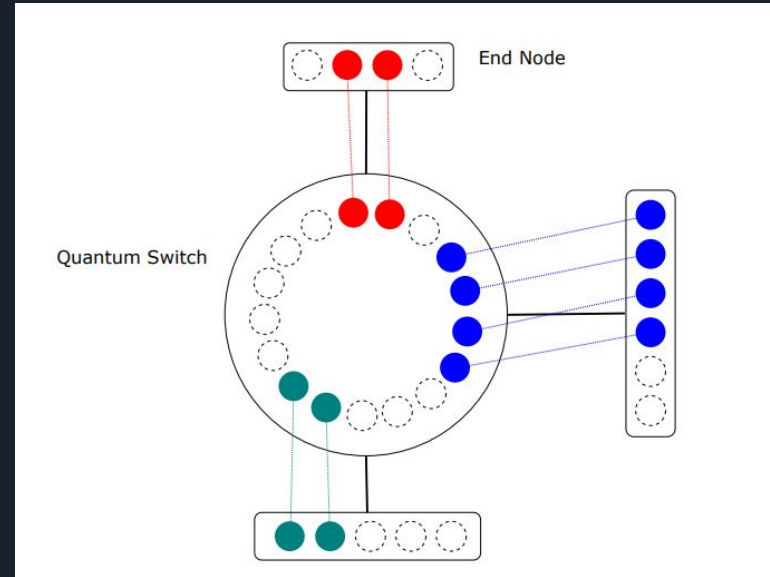


Project Plan

Benjamin Amick, Steven Thompson, Ohik
Kwon, Derrick Wright

Project Statement

- Router using classical and new ideas
- Plan before spending
- Efficiency





Management Style

- Waterfall + Agile
 - Waterfall style planning and Agile based implementation
- Tasks must be completed sequentially
- Tasks might need to be changed due to Dr. Durga's needs



Task Decomposition

Steven & Benjamin - Creating new protocol for routing quantum information to the correct end node

Ohik & Derrick - Building a simulation of each of the quantum nodes as well as the Quantum Router.

Schedule

PROJECT TIMELINE

Simulated Quantum network

TASKS

May

Aug

Sep

Oct

Nov

Making classical network

Making a rudimentary quantum switch

Designing rudimentary quantum network packet

Integration and testing

Increase the node of classical network and quantum router

Improve quantum routing protocol to enhance efficiency

Improve quantum network packet to add more features

Monitoring our project, revising direction through feedback

Research on Quantum networking





Risk and Risk Management / Mitigation

- Implementation Issues
 - Network and router design could just not work
 - Thoroughly checked with advisor and experts
- Creation of classical network
 - Issues concerning detection and design
 - Through research, keeping our advisor updated
- Merging of classical network and quantum network
 - Issues when combining and scheduling router swaps
 - We based our project on most fundamental quantum mechanics



Personnel Effort Requirements

- Making sure healthy open lines of communication
- Understanding each others thoughts and ideas
- 2 student lead meetings and an advisor lead meeting a week