**sdmay23-24: Quantum Computing**
Week 5 Report
October 24 - October 28

## Team Members

Nicholas Greenwood  — *Admin / Qubits*
Jacob Frieden  — *QML / Admin help*
Sam Degnan  — *Error Correction*
Colin Gorgen  — *Quantum Gates*
Arvid Gustafson  — *Global Design / Noise*
Emile Albert Kum Chi  — *Implementation / Electrical design*

## Summary of Progress this Report

This week we were missing Sam, and Arvid joined virtually. Most of what we talked about was with regards to the viability of continuous transfer of ions between ion traps.

We talked about the global design that a node should have to be able to successfully transfer ions and have minimal interference

## Pending Issues

Gavin (grad student advisor) will be testing the viability of the ion transfer and finishing his paper. All team members will read and analyze the state-of-the-art paper

## Plans for Upcoming Reporting Period

Gavin will present his paper at the next meeting, and that will become the basis that we move forward under. The rest of us will all present on our sections referenced in the state-of-the-art paper that became important a few weeks ago.

## Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|---|---|---|---|
| Nicholas Greenwood | Looked into deadlock and quantum volume, participated in global design discussion | 9 | 0 |
| Jacob Frieden | Participated in design discussion | 7 | 0 |
| Sam Degnan | Read about error discussion in Mike & Ike, was not in meeting | 6 | |
| Colin Gorgen | Participated in discussion, watched videos on quantum mechanics to deepen understanding, worked on lightning talk presentation | 9 | |
| Arvid Gustafson | Participated in discussion, helped on design | 8 | 0 |

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| Emile Albert Kum Chi | Participated in discussion, worked on Lightning talk presentation, investigated 3D manufacturing viability | | 0 |
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## Gitlab Activity Summary
Nothing to report.