**PHYS379**

**Theory Group Project**

**Contributions to the Group**

Each student within your group should complete one of these forms.

**Group Name: Group 3 (Quantum Computing B)**

**Student Name: Willow Sparks**

Each student must allocate every other student a mark between -6 and 6.

One mark corresponds to one sub-letter grade.

You will not assign yourself a grade.

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| --- | --- |
| Student Names in your Group | Score ( between -6 and +6 ) |
| Ana Villarubia | 6 |
| Sam Wade | 2 |
| Sid Richards | -1 |
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Please write a few sentences justifying your marks.

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| * Ana: Was incredibly helpful and hardworking throughout the project. Communicated clearly and effectively at all times, took a lot of initiative on the report, found really useful resources such as qiskit, actually implemented Grover search in qiskit which could then run on a real quantum computer (although due to difficulties with the IBM quantum experience this had to be dropped) and overall contributed massively (even despite being quite new to python). * Sam: Initially seemed quite organised and took on a lot of work for the Shor’s project. However, it turned out all the work on the Shor’s algorithm implementation he had done was fundamentally wrong and we remained unaware of this for multiple weeks due to his lack of communication. This very nearly set us back by weeks. However, I feel this failure was not necessarily his fault as he was effectively taking charge of all the quantum implementation of the shor’s project due to a lack of help from Sid (the other person on the Shor’s algorithm project). * Sid: I’m still very unclear about what useful contributions Sid actually made in all honesty. Aside from what he wrote in the report (most of which needed rewriting or removing due to a lack of focus honestly) it didn’t seem like he did a lot on the actual quantum project. As far as I can tell the work he did was on implementing a small scale version of RSA and classical factorisation, which whilst useful wasn’t really the aim of the project and didn’t really need to take 3-4 weeks to do. It’s a little unclear due to the lack of communication really. It generally seemed that he had left a lot of the Shor’s algorithm project to Sam (his explanation being that he was new to python. This would be understandable except for the fact Ana *also was* and she still contributed massively to the project). If he had stepped up more that disaster may have been avoided sooner and more could have been achieved overall. |

Signature: ………………………………………………. Date: ……………………….

Please submit on Moodle by Friday 24 March 2023 @ 3pm.