

# Group Work

October 20th, 2019

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After a lot of deliberation with our advisor and client, we have identified that a more thorough understanding of linear algebra would be necessary for the completion of this project. Because only a few members of our group have taken a linear algebra course, we have asked our client to adjust the goal of our project. Because Cirq is a large repository and still requires a lot of work, our client has voiced that identifying a new project that aligns more with our current skill set will be possible. He is currently working to define this project.

# Individual Work

Calista Carey

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## **Hours Worked: about 5**

A lot of my time was spent on watching the lecture videos and working on a ticket that I plan to have closed soon. I am having trouble connecting what I am learning in the lecture notes to our project. I believe this is because I cannot figure out the linear algebra that is needed, as stated in the group work summary. The meetings we had with our team have been insanely helpful; knowing that I am not the only one confused is showing that a new project goal will be best for our group

Austin (AJ) Hanus

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## **Hours Worked: 6 hours**

Over the past two weeks, I submitted a solution to issue #2022 [Add docstring to cirq/contrib/paulistring/init.py](#). This was very straight-forward. I had to

look up what the docstring format for python was but after that, I was good to go.

I then spent time looking at the issue #2134 [Implement the quantum part of Shor's algorithm](#). While looking through this issue, I consulted Victory, our client, about the difficulties I was facing. This led to having more of the team look into the problem as well. After a lot of deliberation, this also led to the decision our team made, consult the Group Work section for more on this.

Andrew Hancock

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### **Hours Worked: 5**

For the issue I was working, #998, I went through and made sure all tests were passing so that it could be merged. I had my code reviewed and had to run one formatting test just to automatically clean everything up. I also spent time watching CMU videos to better understand quantum computing. I also spent some time improving my understanding of python.

Austin Garcia

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During this period, I continued going through the Carnegie Mellon University lectures. I also continued to work on setting up my development environment with virtualbox and python. We continued to meet as a team and began working together on the first version of our design document. My component involved the literature review section so I've begun going through articles related to our project.

Jordan Cowen

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Over the last few weeks I finished setting up my Linux VM on my machine and created samba file shares so I could edit my local cirq repository from visual studio on my windows machine. In addition I've watched more lectures on quantum computing.

Jacob Shedenhelm

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**Hours Spent: 6**

Over the past few weeks I completed my setup for my cirq environment and completed a Github issue for the Cirq repository. I met with our team and continued to work on the design document that will be turned in towards the end of the semester. While our team was meeting we discussed our current technical difficulties and what the best path forward may be. The above group work section discusses this more in detail but we ended up changing our project goal.