Agenda

- Introductions
    - Deemed unnecessary as we've spent hours together already
- Review of your design from CPRE/EE/SE 491
    - Reviewed comments from final presentation
- Discussion of any changes or improvements to the design
    - We did not have any explicit changes to the design, but changes to how we will adequate simulate our design
- Discussion of the objectives and requirements for CPRE/EE/SE 492
    - Poster (end of semester)
    - Paper: In early stages of drafting
- Discussion of the schedule and milestones for the project
    - Not discussed
- Q&A session
    - Interwoven throughout this meeting

Meeting Notes (Minutes)

- Discussed times for regular meetings
    - Using When2Meet, will hopefully have this nailed down by Sunday
- Discussed reviews comments from last semester's presentation
    - Reformulated how this is a design project:
        - Mathematical / Analytical simulation
        - Ancillary classical hardware modeling
- Discussed 3D modeling software that could be used for ancillary classical hardware modeling
- Discussed deliverables for the class and for the project, long-term goals of the project

Summary

- Include the Project title and Team information, including attendance. (Include a reason if there is an absence)
    - sdMay23-24 Quantum Computing
    - Goal: Create a kilo-qubit scale (KQB) **design** for a quantum computer
    - Team Members:
        - Nicholas Greenwood
        - Jacob Frieden
        - Emile Albert Kum Chi
        - Colin Gorgen
        - Arvid Gusatfson
        - Sam Degnan
    - Advisors:
        - Gavin Nop (PhD student)

        - Dr. Jonathan Smith
        - Dr. Durga Paudyal
- Summary of the main points discussed
    - Our consistent meeting time is TBD
    - We have two main goals this semester: ion trap simulation and spatial design (to make sure all components fit into a designated space)
    - We should use some sort of 3D modeling software (available to us) to help model how components will fit together / in space
    - We will need a poster for 492, we will write a paper, and potentially incorporate an IP component should we progress far enough
- List of any decisions made
    - Decided on 3D modeling software
- List of any actions to be taken
    - Decide on a consistent weekly meeting time
    - Furthur flesh out which team members are tackling
- Next steps for the project
    - Continue evolving simulation software
    - Complete component list so we know what we need to model