Template:
Talked about:

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Worked on these docs:

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Feb 5, 2019

Talked about:

- Brunvand book: MAKE Synthesizer book
- How to share research info? Notes posted to the Slack? Pinned for future meetings
- Brainstorming peripherals to make the synthesizer project more interesting
    - Water pool MIDI input; play notes based on water pressure; visitor hands in water
    - Sectioned water pools; lit with LEDs; controls either settings or notes to synth
    - What are the costs of sensors? How much time will it take? Our first stretch goal should be an interesting, artistic peripheral that people can interact with on presentation day
- Device will probably have analog (?) potentiometers and a digital interface that saves the synth settings presets. The pots will have unlimited turning, and a hex display will show the current setting for each pot.
- We plan to have the synth connect to a computer, and have a lightweight desktop app save and load presets. Need to figure out this aspect through research; how difficult will it be to create this desktop interface?

Worked on these docs:

- Michelle started the mission statement doc

Feb 21, 2019

Talked about:

- Questions to answer for next meeting:

1. What is the difference between analog and digital circuits?

2. How do analog synthesizers take in and modulate data?

3. How will our digital interface save and load presets?

4. How to MIDI keyboards interact with analog synthesizer?

5. How do MIDI keyboards generate analog signals?

6. How do analog signals work? How does the synth make sound?

7. How will the desktop program connect to our synth? What cable will it use?

8. What types of modulation should we put in our synth? How do they work?

Notes from meeting:

Note: should listen to sound examples in our research

Team contract:

- All of us will be present at every meeting; if one of us can't make it, then reschedule

- Address interpersonal problems out in the open; criticize a team member within view of the other two, don't complain to a single other team member in private

- Devote a minimum of 3 hours per week to this project outside of meetings

- Define specific tasks for each team member during each meeting; deliver the result of these tasks at the next meeting

Worked on these docs:

- Team contract

March 5, 2019
Talked about:

- Upcoming initial proposal presentation
    - Settled on what main sections our presentation slides would have
    - Settled on who would work on what parts of the proposal paper
- Discussed long-term schedule for our project, including summer and fall semesters

Worked on these docs:

- Initial proposal slides

March 19, 2019

Talked about:

- Upcoming prototype proposal, Michelle agreed to write most of the document
- Michelle's mini-project in ECE 5780 will be a basic synthesizer, and will also serve as our prototype

March 28, 2019
Talked about:

- Aaron's comments on the initial proposal
- Contents of final proposal; how each section applies to our project
- Planned some progress milestones for the final proposal; decided to finish a first draft of the proposal by April 19 and submit it to Aaron for critique

Worked on these docs:

- Initial proposal document

April 18, 2019
Talked about:

- Milestones for proposal doc before end of semester; decided to finish a first draft by Sunday, April 21, and send that to Aaron for review and proofreading.
- Setting up a shared Google Calendar to remind everyone of meeting times
- Current problems with the prototype demo; some parts blew up, and new ones are coming through the mail. Michelle and Dirk are working on the prototype.
- Each of us researching 1 or two modules/features to add to the synth, and being prepared to talk about those modules in the proposal
- Creating a shared Google Calendar to track meetings and deadlines

Worked on these docs:

- Created shared Google Calendar

June 16, 2019
Talked about:

- Meeting plans for the summer, settled on regular 10am Saturday meetings
- Bringing schematics for interesting modules to our next meeting