

Mon 1/27/2020

We started our semester 2 project. We finished our Finding your passion document. We started our KWR.

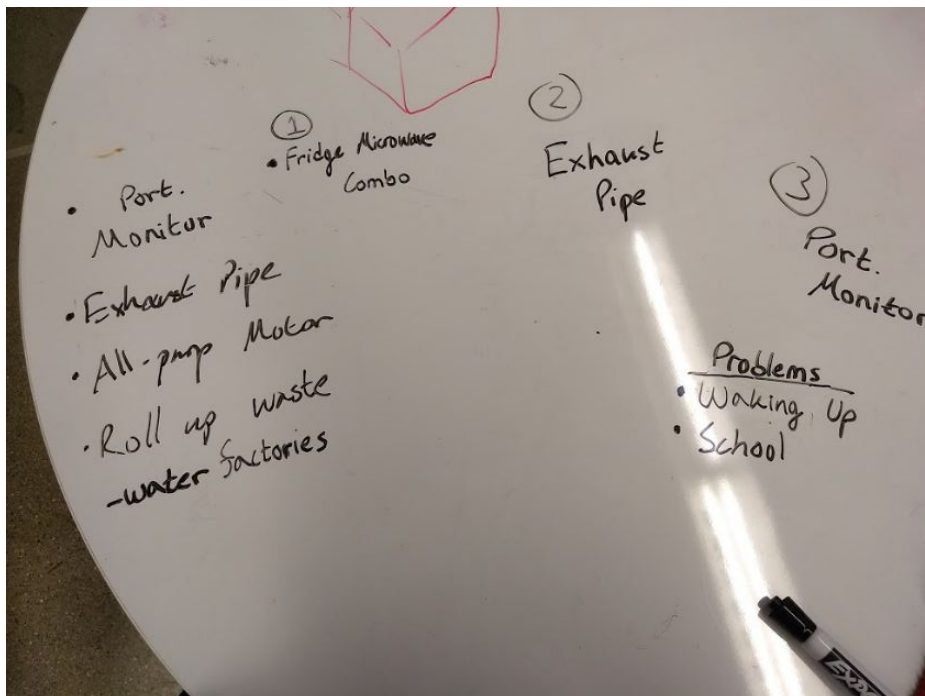
Tues 1/28/2020

We finished our KWR. We ideated potential projects using our KWR charts and Finding your passion documents. We made a document for brainstorming our everyday inconveniences that we would want to solve.

<https://docs.google.com/document/d/1AqFYmZLCPgKeISFL9smd-KPoGhnXG5S6pOGUtr8MTg/edit?usp=sharing>

Wed 1/29/2020

We formed a group of 3 between us: Nick Kaipainen, Jacob Kelly, and Kenny Yue. Went to a whiteboard table and listed our multiple ideas. Continued ideating of ideas and potential projects while drawing them out and explaining it to each other.



Thurs 1/30/2020

We officially confirmed our group members: Nick Kaipainen, Jacob Kelly, and Kenny Yue. We decided to create a system that automated the movement of food from the fridge to microwave.

Additionally, we decided that the project would be called Prepa. We discussed what we would need and created our design constraints.

- Under 4 ft³
- Keep manufacturing cost under \$200
- Safely transfer and heat up food
- Prevent microwave radiation leakage
- Runs at its set time

Fri 1/31/2020

We worked on and finished our Planning document. We made progress check 1.

Planning Document

https://docs.google.com/document/d/17MFGmPh8M-TaWm2rWBWx_pFNoImaZqpu8ViptsHASIM/edit?usp=sharing

Progress Check 1

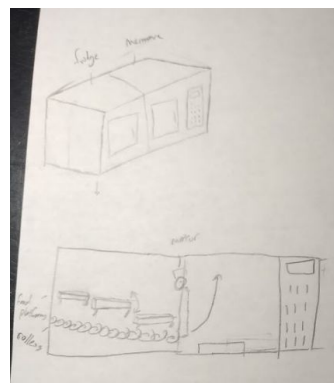
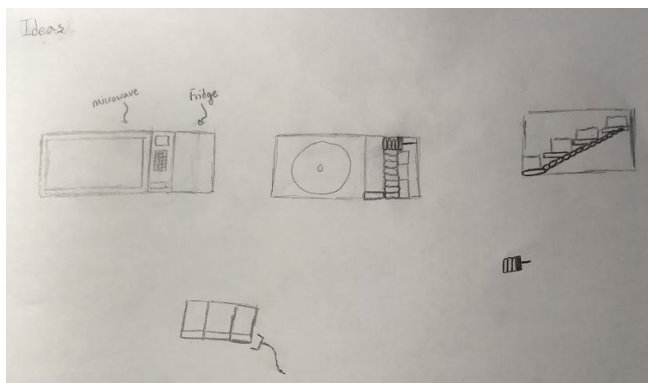
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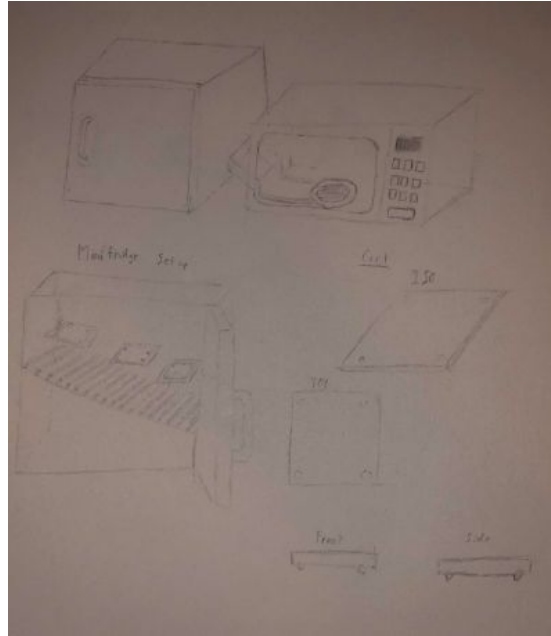
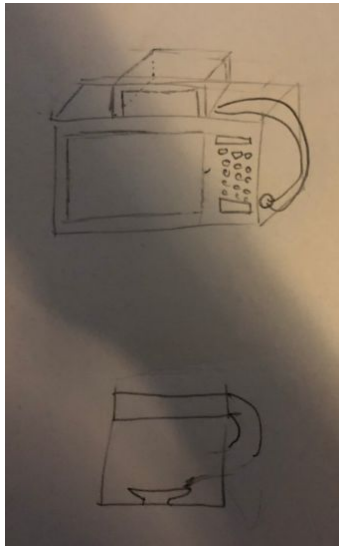
Sat 2/1/2020

We researched about how microwaves work, how fridges work, and what possible designs we could think of.

Sun 2/2/2020

We ideated and drew out different designs that we could potentially develop.





Mon 2/3/2020

We researched what materials we could use, where we could get parts for microwaves, where we could get parts for fridges, how microwaves and refrigerators work, what's inside a microwave, what's inside a fridge, and transport systems we could do.

Tues 2/4/2020

We researched the safety of cutting into a microwave and how we could safely do it or what materials we could use to make sure that there is minimal leakage.

Wed 2/5/2020

We finalized our design sketches and started our decision matrix. We gathered materials we would need to make prototype 1; cardboard, tape, cardboard cutters, and PVC pipes.

[Sketches]

Thurs 2/6/2020

We finished our decision matrix and decided to do design 3. We started our prototype 1.

Prepa	Practicability (5 pts)	Cost Efficiency (5 pts)	Compatibility (5 pts)	Space Usage (5 pts)	Time to assemble (5 pts)	Total (25 pts)
Design 1	2	3	2	3	2	12
Design 2	2	2	3	5	2	15
Design 3	3	3	4	2	4	16



Fri 2/7/2020

We did progress check 1 today. We made progress check 2

Progress Check 1

<https://docs.google.com/document/d/16lgFc9xK8H6jw7RqC3o4fy1ra4okyXdX5aYUTO9RmrM/edit?usp=sharing>

Progress Check 2

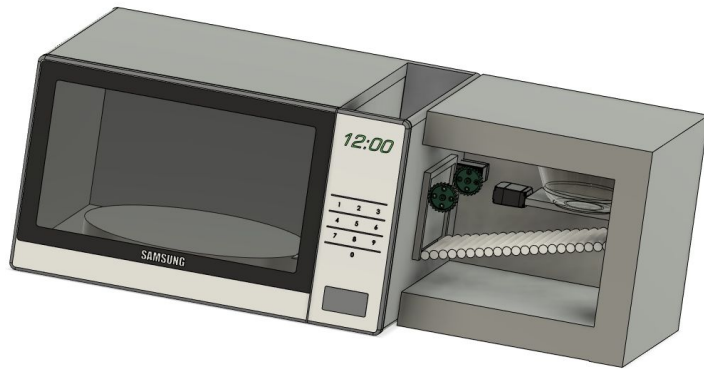
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Sat 2/8/2020

We started CADing prototype 1. We looked for microwaves and fridges that we could potentially buy.

Sun 2/9/2020

We finished CADing prototype 1.



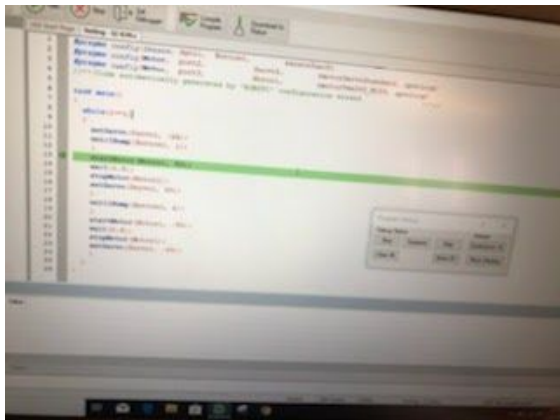
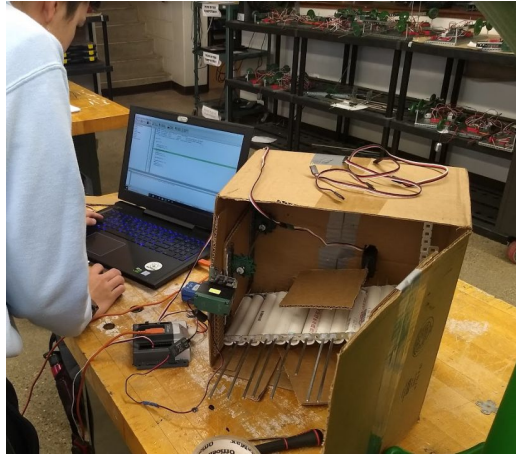
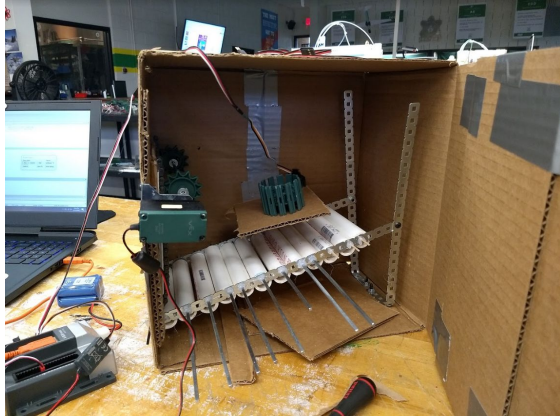
Mon 2/10/2020

We gathered all the vex parts we will need for prototype 1. We made the door for the door system.



Tues 2/11/2020

We finished building the fridge side of the microwave. We coded the vex parts and did tests to make sure the drop and door system worked in synchronization.



Wed 2/12/2020

We finished building the microwave side of our prototype.



Thurs 2/13/2020

We finished up our prototype. We did some testing on how consistent it was and noted what went wrong and what we would need to change for the next prototype.

<https://www.youtube.com/watch?v=ld8RX5PPosM>

Fri 2/14/2020

We did progress check 2 today. We made progress check 3.

Progress Check 2

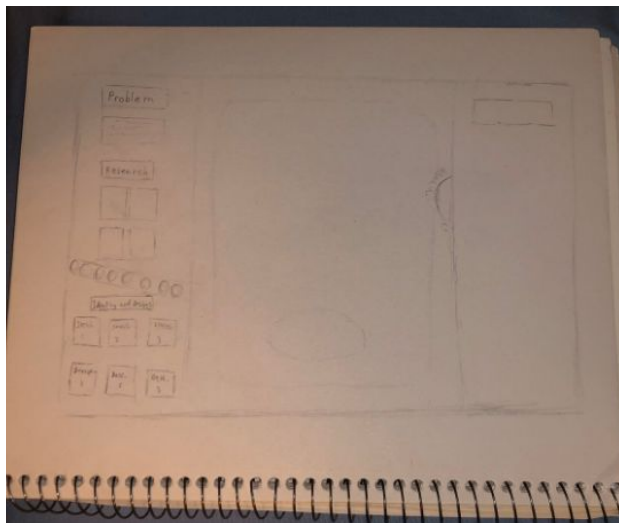
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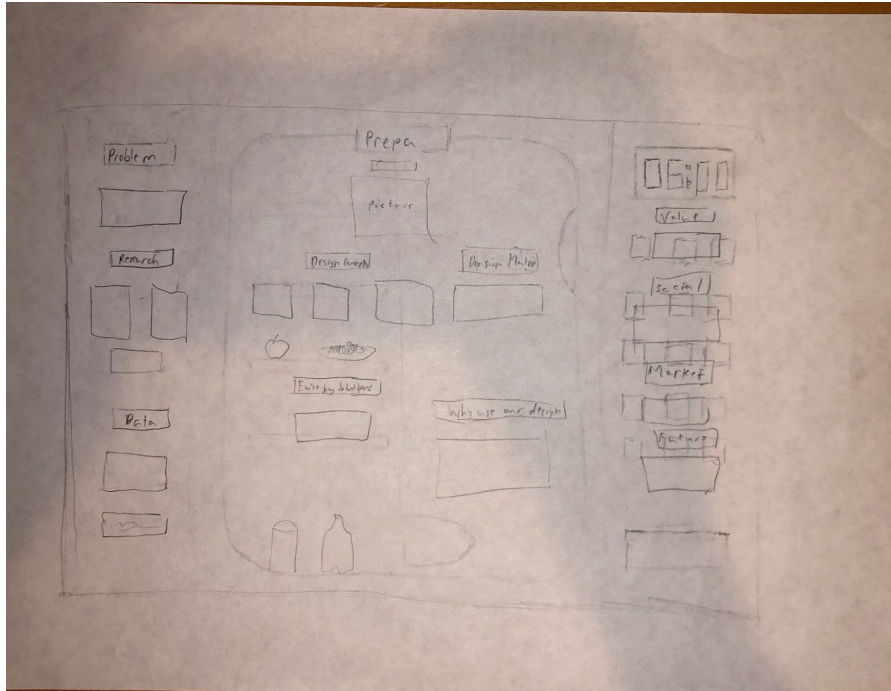
Progress Check 3

<https://docs.google.com/document/d/19XS6XQuJEvP--Ec6EFoulmEaGOaD1OGtsvO5A9z-2D8/edit?usp=sharing>

Sat 2/15/2020

We planned what would go on the slides and decided on the layout and design of the poster.





Sun 2/16/2020

We worked on assembling the presentation; cutting slides and construction paper. We planned what each person would say for our video pitch.

<https://docs.google.com/presentation/d/1PYPthGhCd5rrunuBo4P09YbnaVN4RV4aZUpd1QG-SRw/edit?usp=sharing>

Mon 2/17/2020

We updated the poster board with information that was missing and recorded our video pitch.

<https://www.youtube.com/watch?v=knBnx4OWf0k&t=9s>

Tues 2/18/2020

Uploaded the video onto youtube and made the logbook into pdf form for submission.