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Solo Work 3/23/23 notes

Finalizing 3D models to send to print
Shop

Scaled lid drawing to match size requirements
of housing

Team Meeting

3/24/23

40

1:30 PM to 2:02 PM (ET) 12. Antelope

Discussed Arduino to pi communications

Discussed on-board database ideas

Aiming to send prints to shop soon

42

Team Meeting 3/27/23

9:30 AM - 11:10 AM

Uploaded .stl files to git for Carlos to
send to print shop.

Discussed raspberry pi to arduino communications
with ~~Kyle~~

Applied for FEDC general membership so
Carlos can acquire a team membership to
get print permissions

Lecture
9:00 AM

3/29/23 must

43

Weekly Report #4

Notes:

Prof: Prints might take a while,
especially this late in the semester

Caleb: We're hoping the FEDC's multiple
3D printers will be quick enough

JP: We're aiming to use microsoft SQL Server
on the Pi for recipes

Prof: Aim to demonstrate using recipes
with multiple Spices

Kyle: We've hooked up multiple motors up.
Our only concern is

Prof: Aim to finish prints within the week

Karl: Try to get one or two containers
completed for demo for now

Prof: Look into printing outside of Zack

44

Team Meeting

4/3/23

9:30 AM - 11:00 AM

Met at Carlos's to work on 3D Modelling, database, and Arduino Code

Lecture

Project J - Phase 1

3/5/23

45

8:00 AM -

Team Meeting #5

- Updated on FEDC Speed
- Live Demo 4/26
- Look into MS SQL compatibility
- Connection opportunities
- Demo is like - Team Meeting
- ABED accreditation

May 1st, presentation
or

May 3rd, presentation

- Arduino → Pi library

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Team Meeting 4/7/23

4/7/23

Installed touch screen to raspberry pi

Area

trouble shot wifi issues

began process of installing

IDK on pi

Team Meeting

47

4/10/23

10:00 AM

Finishing JDic install

aiming to run JP's UI on the pi

and test Serial communication from

arduino to pi

48

Lecture

4/12/23

8:00 AM

Weekly Meeting #6

1. Printing progress - Good

aiming to finish lid and print by
today

Note: Bring up gear calc in final presentation

2.

3. Door mechanism:

- focus on good contact

- biggest issue could be unintentional gap
in coupling

- Contemplate Spring utilization in design
to ensure coupling window

- Isolate spring from Voltage load

arm to housing gap

- Ground everything only worry about 5V

Team Meeting

4/14/23

49

12:00 - 2:00

Worked on:

- Sanding down parts for better fits
- Getting Stepper motor functional
- Changing 'database' to be hard coded into java

Discussed:

- Motor friction issues w/ spiral and housing
- Making database hard coded for demo
- Manually connecting motors to arduino for demo

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Team Meeting

4/17/23

00:5 - 07:5

Still focusing on assembling pieces

Informal team meeting

Lecture 4/19
team meeting

51%

Became aware of touchscreen orientation issue

- will be adjusting UI for landscape view

Note: torque induced on ~~stepper~~ Stepper motor
will be high, so consider mounting it
with more than 2 zip ties

Surround motor w/ wooden mount



5212 Team Meeting 4/21

Agenda items

1. 2. 3.

- good working environment to draw reward

- give timeline of IT provider go live +

- internal reports same no break support with

- forward facing or pain point
early & next year plan with

- from action in action work



Team Meeting 4/24/2019

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Finishing up preparations for demo on Wednesday

- Ran into issue w/ Stepper motor not being able to rotate bearing table

- Show UI on raspberry pi
- Show single empty chamber rotating
- Discuss:

- Servo Torque Issue
- Spice motor Issue when splices added
- PI Serial issue
- * - Major downfall: project relies on many moving parts

Continued preparing for demo

- Servo motor can't handle weight of all the housings and spacers, so we won't be demoing that part.
- Similarly, housing motors are too low torque. Any spike added creates too much friction causing the spirals to stop spinning.
- Finally, serial communication works between PC and arduino, but Pi - to - Arduino has been unsuccessful because no IN and OUT pins work.

Team Meeting

4/26/23

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Demo Day !!

8:00AM - 11:00AM

Also recorded presentation demos