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Meeting Time: 3:10-4:31

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1st Recorded Project Meeting in Journal 2/3/2023

- Found similar products, linked in shared drive

Taste Tro → Very similar product, does what we want ours to doImprovements: Adding a web-based ~~recipe~~ functionality
recipe 2/3/2023UC Florida Final Project: Similar but w/ 4 spice options, rotatesUCLA Auto spice dispenser: Similar but w/ 8 spice options, does not rotate
10 2/3/2023

→ Seems like most projects follow Taste Tro design

→ Looking for ways to add to functionality

→ Still floating idea of water mineralization

Timeline for Proposal → Team unofficial deadlinesNeeds, Objectives, Requirements → Due by Monday 6th, FebruaryLiterature & Tech Survey → Due by by Feb 8th, WednesdayProposed Work → Due by February 13th, MondayEngineering Standards → Due by February 15th, Wednesday

↳ Ind. executive Summary

Lecture 2/6/2023

→ Dysfunctions of a team

• Lack of trust

• Fear of Conflict

• Lack of Commitment

• Avoidance of Accountability

• Inattention to Results

8:00p → Meet to finish Needs Statement

8:15p 2/6/2023 Met for meeting

↳ Finished Needs, objectives, & Requirements

↳ Realized that we need a good name

↳ Goal before proposal, find better name

Finished 9:25pm

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February 8th, 2023 - Lecture

- Work day → Writing up research on Commercial projects

Talk with Professor

- Need to expand requirements statement
 - Abstract & Measurable
- Need to have some sources to cite for motivation
 - Intro
 - Mention future work

Research Write-Up

- Need to look for things to improve on
 - ↳ Emphasize the "Computer Engineering" aspects
- Improvement Idea:
 - None of the dispensers had any liquid dispensing functionality
 - ↳ Include modular containers, one for solid one for liquid
 - ↳ Have a way for micro controller to tell which is which

February 13th, 2023

- Workday, Presentation & Proposal
 - ↳ Emphasis on proposed work

Work Completed:

- Miro board for sketching & Designs
- Work proposed section → Continue work
- Format final proposal

To be Continued

- Presentation
- Management Scheduling

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February 15th → Presentation from 8:15a - 8:45a

Personal Notes:

Team Δ:

8:50 - 9:13a

- Background → Post-COVID, 70% of Americans are participating in E-commerce
 - ↳ 5-Trillion Dollar expansion in market
 - ↳ Parcel Piracy is becoming increasingly
- Needs Statement: Need a product that can reduce packages stolen
- Product: Face recognition lock box with keypad
 - ↳ Want to give box security features
 - ↳ Heating pad to keep food warm
 - ↳ Pre-existing delivery box does not meet standards

Biggest Losers: Fitness Watch / Device

- Background → 32% of population is obese, want a way to track fitness

Needs Statement:

Literature Review:

- ↳ Fitbit → focuses on numbers instead of recommendation
- ↳ Apple Watch → Most expensive
- ↳ Whoop band → Subscription Service
- ↳ Oura Smart Band → Ring implementation

Proposed Design: Arduino Zero for main processing unit

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Team Q: Music Master

9:43-10:01a

- Problem Background → 100,000 Musicians, Definitely more
 - ↳ Defined Goal Want to provide a way for music practice more effectively
 - ↳ Motivation
 - ↳ Feedback
 - ↳ Repetition

• Needs Statement:

• Objectives:

- ↳ User provides objective and music
- ↳ Product will provide output of performance statistics
 - Pitch & Accuracy Percentage
 - Track on a graph how much improvement is made over
 - Provide notifications for music deadlines & encourage

• Literature Review:

• Design Constraints:

- ↳ Turn sheet music into midi,
- ↳ Take user performance as an input to match w/ midi

Super Salad: Customizable Food Dispenser

11:05

- Problem Background → Food Service constantly evolving, want replace self-serve with something more access
- Needs Statement: There is a need for an accessible and s product that can replace a buffet style food service

• Literature:

- ↳ Manual Dispensers, Rotating Dispensers, & Cuke

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