Team 24

Project Title: Laser Arcade Machine

Date: 10/17/2021

Members:

Joseph Kenkel - Signal Communication

Ashley Robertson - General Hardware

Jonah Stoffer - General Hardware

Mark Kavars - Microcontroller

Tyler Beveridge - Full Stack / Raspberry PI

Morgan Luecht - Front-end Developer

Zack Larson - Back-end Developer

What we've accomplished in the past week/what we've been researching

Joseph Kenkel - Research bluetooth hook up boards and make a word doc about different boards, marking both their benefits and disadvantages.

Ashley Robertson - Worked on a system level diagram for hardware, and one for the overall system. Spec out IR Emitter.

Jonah Stoffer - Researched power consumption of circuit and assisted with the design assignment

Mark Kavars - Selected the microcontrollers that we will use

Tyler Beveridge - Generated boilerplate code for front end and back end. Looked for IR emitters. Tested boilerplate code on raspberry pi. Worked on the design section assignment.

Morgan Luecht - Researched working with a Raspberry Pi and helped with design for software

Zack Larson - Researched popular stats accumulated for laser arcade games. Helped with design of software diagram and design assignment/ lightning talk.

What we're planning to do in the coming week

Joseph Kenkel - Meet with Mark and finally select the microcontroller and bluetooth board that will go with it. Once selected, talk with the ETG about obtaining said controller and bluetooth module.

Ashley Robertson - Do calculations based on the transmitter power and receiver's receiving, calculate how far the shooter can be from the target.

Jonah Stoffer - I would like to begin drafting some initial schematics for some of the necessary circuitry.

Mark Kavars - Order microcontrollers

Tyler Beveridge - Get other software people ready for workflow, find an android tablet.

Morgan Luecht - Begin looking into working with react, and familiarize myself with the boilerplate code from Tyler.

Zack Larson - Develop Database Schema, Start to understand backend boilerplate code from Tyler

Issues we had in the previous week

Joseph Kenkel - Finding a time to meet with other members to discuss which board we are going to use.

Ashley Robertson - It is midterm time so the schedule is full.

Jonah Stoffer - I've been busy so my time was limited

Mark Kavars - No issues

Tyler Beveridge - No issues

Morgan Luecht - No issues

Zack Larson - Finding effective time to meet