

Team 13

Project Title: Automated Chess board

Date: 10/17/2021

Members:

-Luke Dirks

-Nathan Kelly

-Jeet Nair

-David Imhoff:

-Nathan Bellows

-Dawson Munday

-Isaac Sachse-

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

-Luke Dirks – This week I wrote and recorded parts of the design lightning talk. Additionally, I created a python interface to interact with the Stockfish, the chess AI we are using. I also worked with David to begin setting up a Raspberry Pi.

-Nathan Kelly - I have researched and ordered hall effect sensors and designed a test setup to test viability.

-Jeet Nair - Working on the presentation and recording the lightning talk. Worked on some basic implementations with stockfish to understand how it works.

-David Imhoff - Helped with generally required docs for the week. Started playing with stockfish API and worked on setting up Rasp Pi

-Nathan Bellows - Was planning on helping test the sensor parts but that hasn't happened yet. Got started with Luke's repo and tried the basic stockfish test script he wrote, but haven't added to it yet.

- Dawson Munday - Recording the lightning talk presentation and working on the testing design presentation today

-Isaac Sachse- Planned hall effect sensor testing with Nathan as we waited for parts to arrive. (Not much while waiting for parts).

What we're planning to do in the coming week

-Luke Dirks – We need to finish our testing lighting talk and document. I plan on continuing to iterate on the stockfish interface. Additionally, our sensors should have arrived so we can begin testing those.

-Nathan Kelly - I plan on testing the hall effect sensors and start the design for application to the project.

-Jeet Nair - Parts for the Hall Effect Sensor have arrived so we may start testing the prototype sensors in the upcoming week.

-David Imhoff - Finish required docs and keep playing with stockfish api. Order a screen so we can start implementing an api

-Nathan Bellows - I will help speed up sensor testing with my personal Arduino and code I write for it. I may be able to help with Raspberry Pi testing with my personal Pi as well.

- Dawson Munday - Waiting on the shipped parts then plan to help with the prototyping

-Isaac Sachse- Working with Nathan (and whoever else wants to join) on testing our sensors and building a small scale board to test movement sensing and planning ahead for piece movement. The sensors have arrived and we will be testing on Monday.

Issues we had in the previous week

-Luke Dirks – The parts we wanted to test haven't arrived yet so we have been stuck waiting for those. Additionally, we had some problems setting up the Raspberry Pi.

-Nathan Kelly - I couldn't make the meeting due to schedule conflicts.

-Jeet Nair - No real issues this week as we have been simply waiting for stuff to arrive so that we can start physical testing.

-David Imhoff - Some difficulties with scheduling and communication, but nothing major. Waiting on parts to arrive. I forgot my raspberry pi root password :(.

-Nathan Bellows - We are still waiting on parts to arrive, and we need to make decisions regarding stepper motors and the touch screen.

- Dawson Munday - Waiting on the shipped parts

-Isaac Sachse- Waiting on shipped parts and exam conflicts