

EWU IEEE

Sorter Project Meeting

Sunday, August 23rd

Participants: Jaidon, Cody, Matt, Amy, Nhat, Wilson

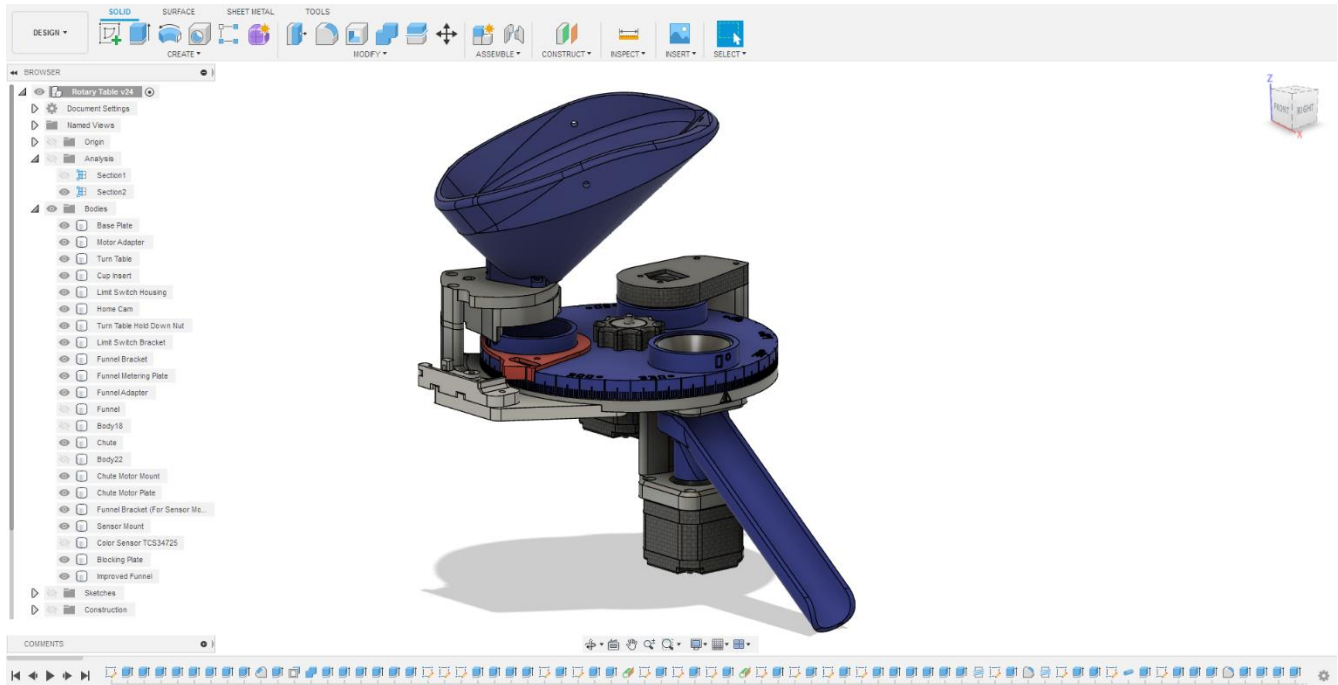
Schedule:

We are on track to get an early controls system design implemented and tested on the mechanical prototype by the end of this week. A generic FSM control sequence has been uploaded to GitHub, and we'll work together to get this tied to our existing code throughout this week. Also, a good amount of progress has been made towards the mechanical design (see below), so having an assembled system to test on is not far away.

bench test color sensor to motor interface	8/2/2020
Design outline of control systems	8/30/2020
finished mechanical prototype	8/30/2020
Implement basic user interface	9/13/2020
integrate camera and image processing	9/27/2020

Mechanical Engineers

- Made improved funnel design that is easier to manufacture and has mounting provisions for increasing the capacity and adding an agitator motor
- Fixed metering system that grabs one skittle out of the funnel and puts it in the turntable cups



Sensor Team:

- Amy and Cody have been working on other tasks (administrative work, TM4C setup tutorial, mechanical design)
- Matt has continued research into image processing code

Motor Team:

<https://github.com/EWU-IEEE-Spokane/Sorter-Project/tree/master/Docs/Motor-Control-Team>

- Learned KiCAD EDA software, created motor driver PCB design and is getting close to getting an initial fab order placed
- Created memos to cover past work done

User Interface Team:

<https://github.com/EWU-IEEE-Spokane/Sorter-Project/tree/master/Docs/User-Interface-Team>

- Uploaded generic FSM code to GitHub