MIDDLE EAST TECHNICAL UNIVERSITY

_____

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

_____

EE 494-DESIGN STUDIO 2

WEEKLY REPORT V

Company Name: Revolutionary Systems Inc.

Date: 05.03.2020-11.03.2020

Group Members: **Onur Akdeniz**

Doğukan Atik

Ozan Berk Boyraz

Ahmet Demirdaş

Mert Eyüboğlu

1. SUMMARY OF THIS WEEK'S PROGRESS

In this week, we have completed some labors like laser cutting of plexiglass for the main structure of the vehicle. We also have worked on the image acquisition subsystem for optimization purposes.

2. VEHICLE DESIGN

For the vehicle, the main structure is consisting of three layers of plexiglass. Specific points of these layers had to be cut for jumper transitions between layers and motor mounting.
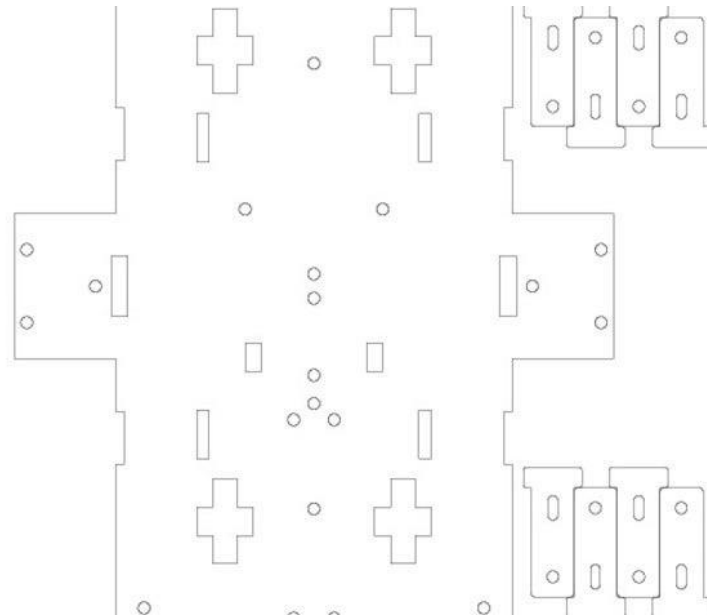

Figure 1: Technical drawing of the vehicle layer

3. TO-DO LIST FOR MARCH 11 – MARCH 14

- Arduino Memory Utilization (Assigned to Ahmet)
- Op-amp search for comparator circuitry (Assigned to Onur)
- Getting the communication circuitry compatible with Raspberry (Assigned to Doğukan and Onur)
- ASM design for vehicle, receiver terminal and transmitter terminal (Assigned to Doğukan, Ahmet and Mert)
- Raspberry boot-up (Assigned to Ozan)
- UART optimizations (Assigned to Doğukan and Ahmet)

4. CONCLUSION

Progress has been made for the vehicle design and the image acquisition submodule and next week, the To-Do List part of the report will be done by the company members.