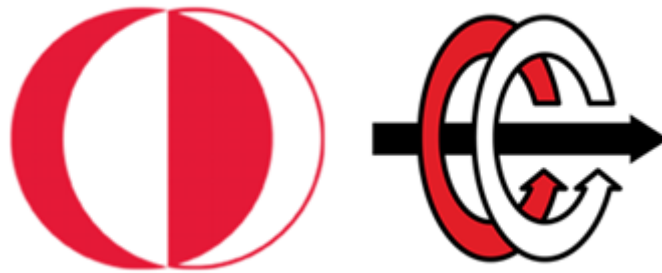


**MIDDLE EAST TECHNICAL UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**



**TROY TECH
WEEKLY REPORT #3
01.03.2019-05.03.2019**

Section : 7

Studio Coordinator: Mustafa Mert ANKARALI

Partners :

Hasan ÖZKARA - 2031888

Kağan ÖZASLAN - 2031854

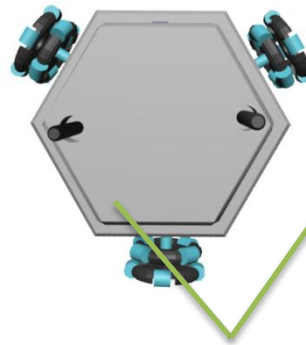
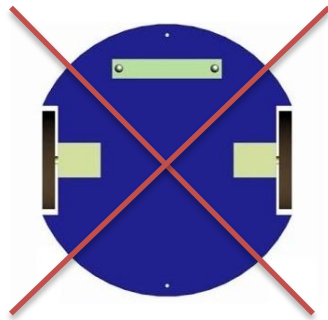
Caner POTUR - 2031250

Mustafa Ercan OKATAN - 2031193

Mert KAYIŞ – 2030997

Progresses for Previous Week:

- ➔ We created 3 omnidirectional wheeled robot and tested its basic movements. It could move forward/backward/left/right and turn around itself smoothly. Therefore, we decided to use holonomic control instead of differential drive.



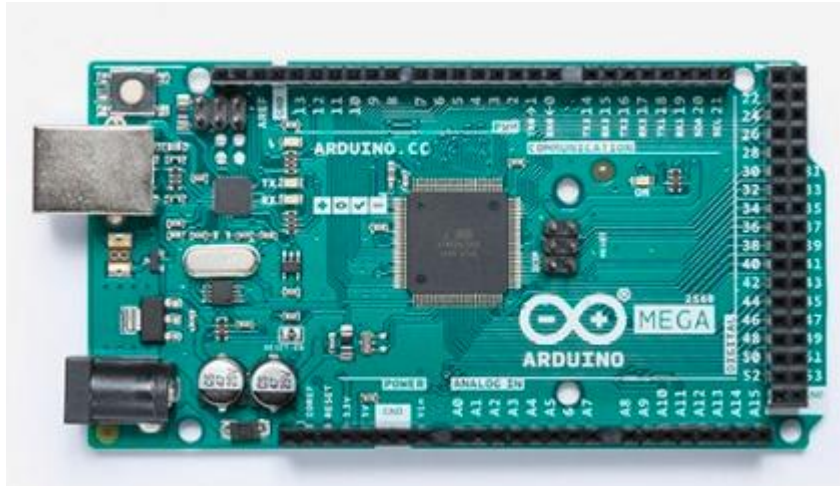
- ➔ We created a shooting mechanism using a solenoid, 50V capacitor, 12V to 35V dc-dc step up converter and tested using different voltages. It worked successfully. Therefore, we decided to use solenoid as our shooting mechanism.



- ➔ We discussed about the other subsystems and made definite which methods to use.
- ➔ We started to write "Critical Design Review Report"

Plans for the Next Week:

- We will order an “Arduino Mega” to combine all subsystems on the robot.



- We will discuss about design and shape (i.e. circle, hexagonal, triangle etc.) of the robot.
- We will start to construct our design.
- We will finish the “Critical Design Review Report”