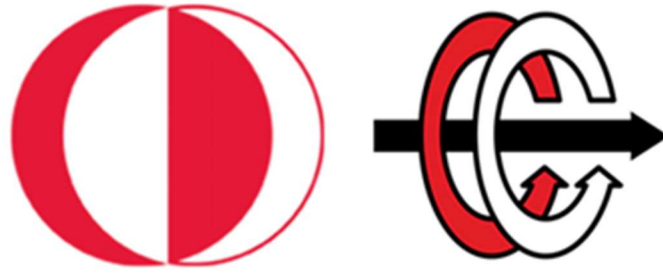


**MIDDLE EAST TECHNICAL UNIVERSITY  
DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING**



**TROY TECH  
WEEKLY REPORT #3  
18.03.2019-22.03.2019**

**Section : 7**

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### **Progresses for Previous Week:**

Last week we did the whole design from the beginning since we use one size bigger solenoid. Also, we decided the places of mounting holes and arrange the sizes.

For design progress, we sent the necessary mounting parts to the producer including motor holder, battery holder and shooter plaque. Also we bought the mounting miles and screws which we need.



Figure 1: 33mm stroke solenoid

We tried the circuit of shooting system and we ordered bigger capacitors which are 10000uF. We also tried the 15A relay and NPN transistor for switching. The circuit operated well and we are going to finish the circuit implementation.

We got the signal booster amplifier for video transmission and we have done tests some, for further progress we are going to end the tests and observe the improvements.

### **Plans for Next Week:**

1. Order body and implement it.
2. Try new capacitors and implement shooting system onto body.
3. Implement all subsystems on the robot with a Arduino mega.
4. Improve command control for controlling robot.

