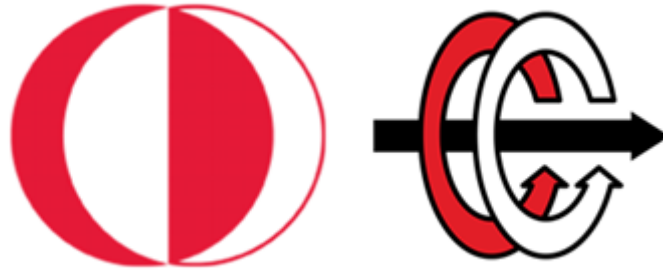


**MIDDLE EAST TECHNICAL UNIVERSITY  
DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING**



**TROY TECH  
WEEKLY REPORT #10  
12.12.2018-20.12.2018**

**Section : 7**

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### Progresses for Previous Week:

- We tested the command transfer unit using NRF24L01 with 15dBi 2.4Ghz linear antenna and 25dbi 2.4GHz Yagi antenna alternately. Both antennas increased the maximum transmission range widely.



- We bought a new FPV transmitter: Eachine TS5828S 40CH 5.8G 600MW. It can transmit the video from the 1<sup>st</sup> floor of E building to ground, first and second floor of D building and up to study hall in D building smoothly.



- We created a RC robot using two DC motors, power units, FPV transmitter and command receiver for demo:



- ➔ We created a transmitter unit including PS1 joystick and transmitter. By using this unit, robot can move forward-backward and turn around itself with different speeds. Speed can be adjusted using analogs(3 different speed options for all movements.)



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

- ➔ Writing conceptional design report
- ➔ Preparing a presentation
- ➔ Testing the robot