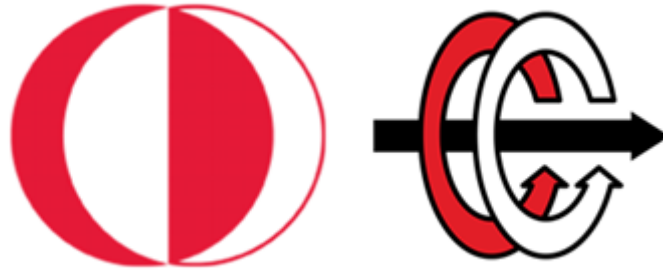


**MIDDLE EAST TECHNICAL UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**



**TROY TECH
WEEKLY REPORT #8
28.11.2018-07.12.2018**

Section : 7

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Progresses for Previous Week:

- ➔ We have tested FPV camera and receiver module. We could transmit the video from the entrance of E building to the canteen in D building successfully.
- ➔ We have tested both NRF24L01+ and APC220 modules for wireless command transmission. We could transfer the commands from the entrance of E building to the main entrance of D building.
- ➔ We searched about different shooting techniques.
- ➔ We worked on sensing the buttons of PlayStation 1 Joystick. An example test about reading the analogs (LEFT_X, LEFT_Y, RIGHT_X, RIGHT_Y) is given in Fig. 1.

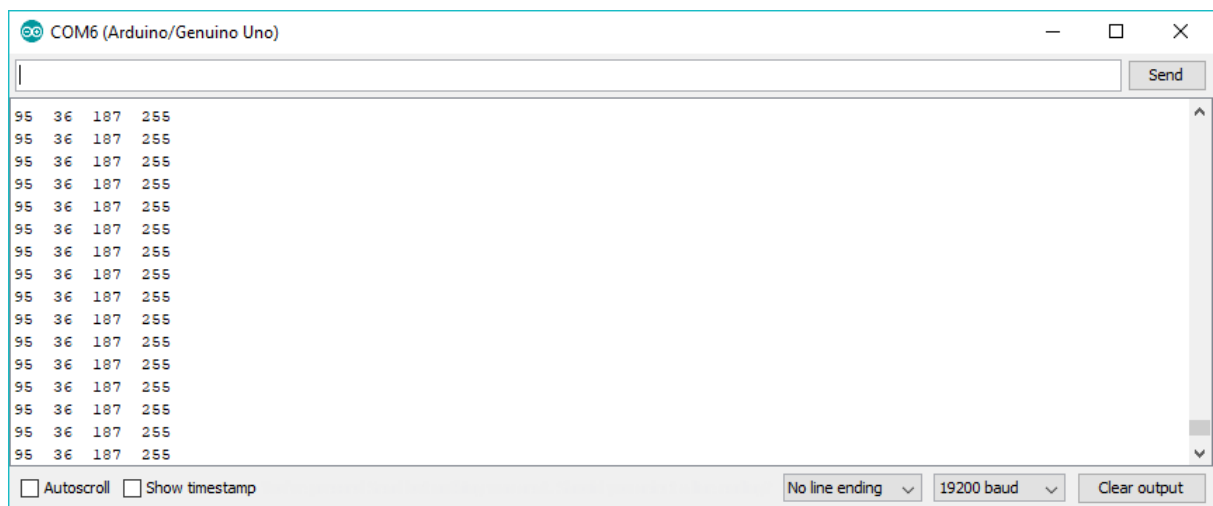


Figure 1 Reading analogs from PS1 Joystick

- ➔ We worked on encoder to detect motor speed. Some tests for reading encoder value and reading current speed are given in Fig. 2 and Fig. 3

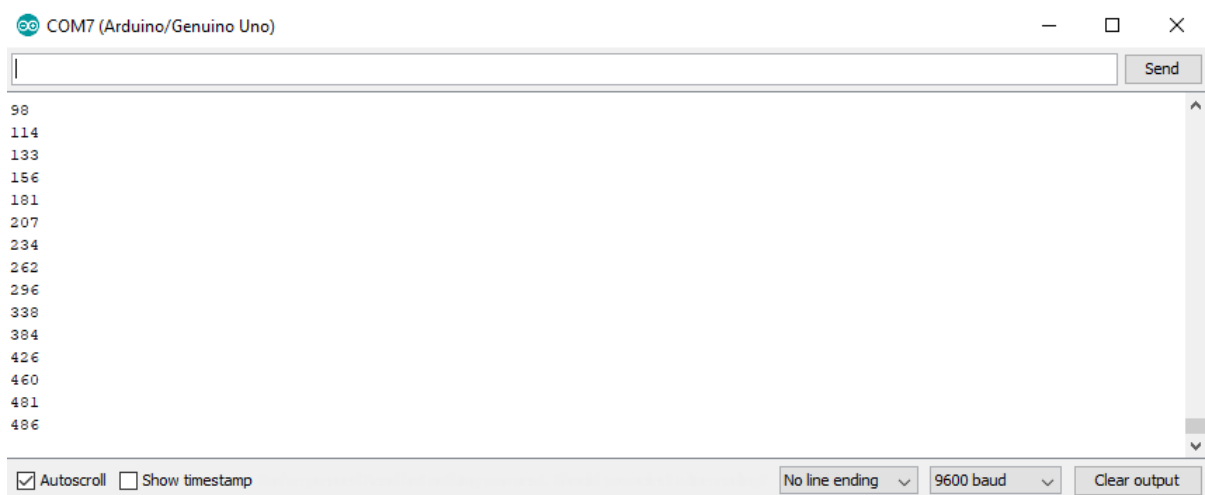


Figure 2 Reading encoder value

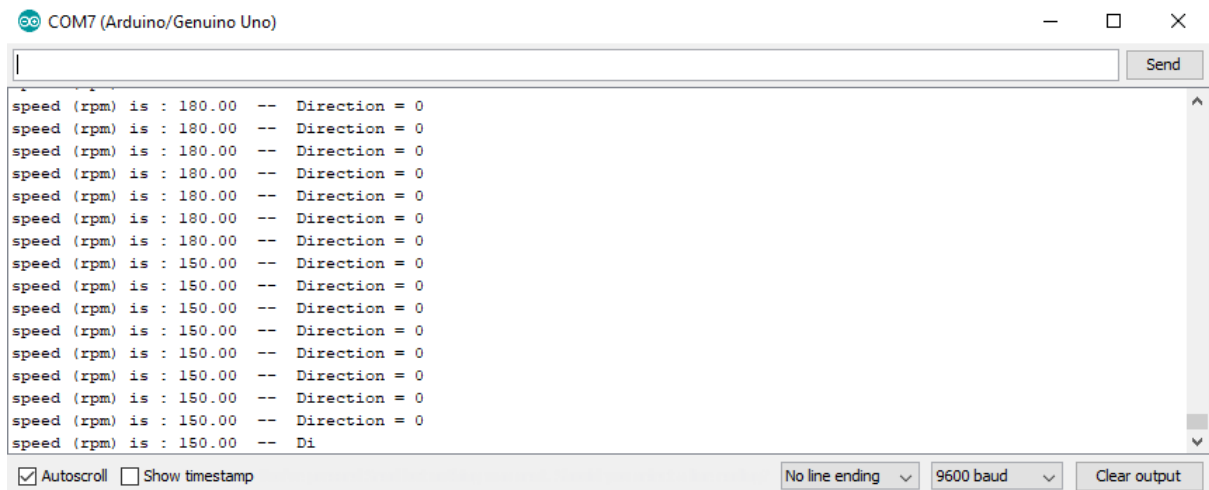


Figure 3 Detecting speed from encoder value

Plans for the Next Week:

- ➔ Increasing the range of wireless command transfer by trying different antennas or different modules.
- ➔ Driving the motor using PI/PID controller.
- ➔ Uniting PS1 joystick and command transfer modules.
- ➔ Discussing about test results.