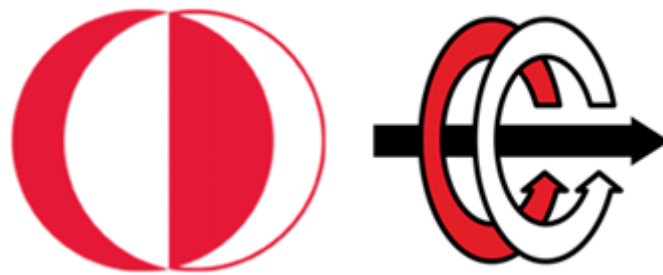


**MIDDLE EAST TECHNICAL UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**



**TROY TECH
WEEKLY REPORT #6
14.11.2018-20.11.2018**

Section : 7

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Progresses for Previous Week:

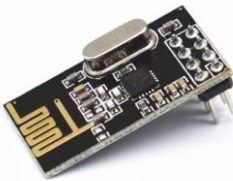



→ The FPV Camera has reached us but we are still waiting the FPV receiver module to test them.

→ We searched about power unit for FPV camera. We thought that it can be a lipo battery or a powerbank.

→ We realised that if we choose 2.4 GHz for command transmission we need to be sure that the signals should not interfere or coincide.

→ We searched some wireless communication submodules for command transfer as shown in Table 1. Further information about these modules are in 'TROY-TECH/Searches/Wireless Transmission/Researches on Command Transmission.docx'

Table 1. Some wireless communication submodules for command transfer

NRF24L01	CDSNET E32-433T20DT (LoRa SX1278)	FlySky FS-i6	APC220
			
-2.4 GHz -Small range but can be improved -Cheap	-433MHz -Long range(3000m) but small datarate	-2.4 GHz -6Channel -Maximum range is about 1000m	- 431-478 MHz - Range is around 1200m. - Easy to setup - Low power consumption
Price:\$0.78 (aliexpress.com)	Price: \$7.15 (aliexpress.com)	Price :\$42.98 (banggood.com)	Price:\$25.99 (banggood.com)

→ After all, we have discussed about these modules and purchased APC220 for Command Transmission.

Plans for the Next Week:

- ➔ Deciding the power unit of FPV camera and command receiver module.
- ➔ Purchasing the power unit.
- ➔ Testing the FPV camera and FPV receiver module.
- ➔ Searching about command transfer, shooting system and motor drive.
- ➔ Discussing about test results .