

Sibel Türkoğlu

- CLTP8 Participant
- Astronautical Engineer
- Satellite Payload System Engineer at **aselsan** in Turkey.
- I'm also pursuing a PhD at Istanbul Technical University (**İTÜ**) concentrating on X-Ray Pulsar Navigation.



CLTP8

- Organized in Nihon University at Chiba, Japan.
- Held on September 7–16, 2017.
- First CLTP group used Heptasat kits.

Before CLTP

- Online Lecture Series before workshop on these topics:
 - CanSat & CubeSat Missions
 - Main Subsystems of CubeSat
 - Tests and Safety Standard
- Online lectures were useful providing necessary background information to diverse group of students.
- All the students are on the same point
- Nobody fall behind during course

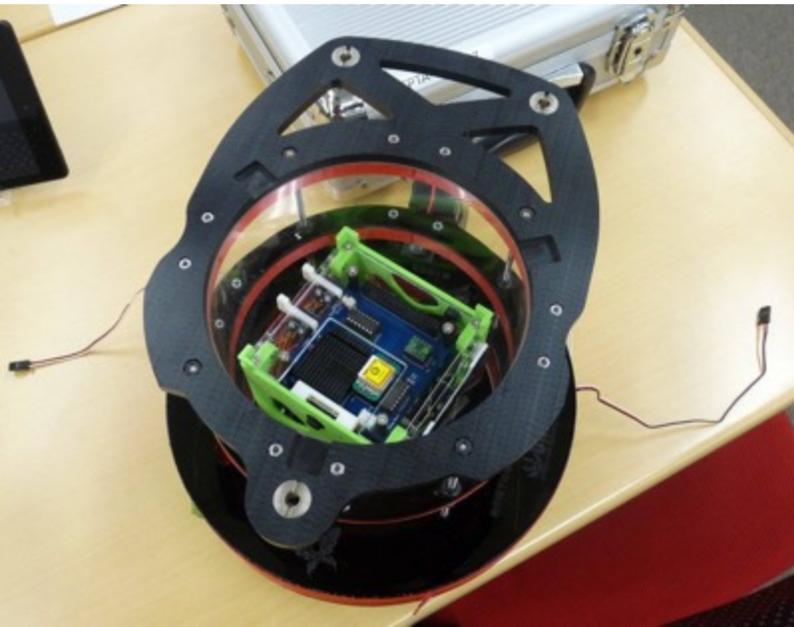
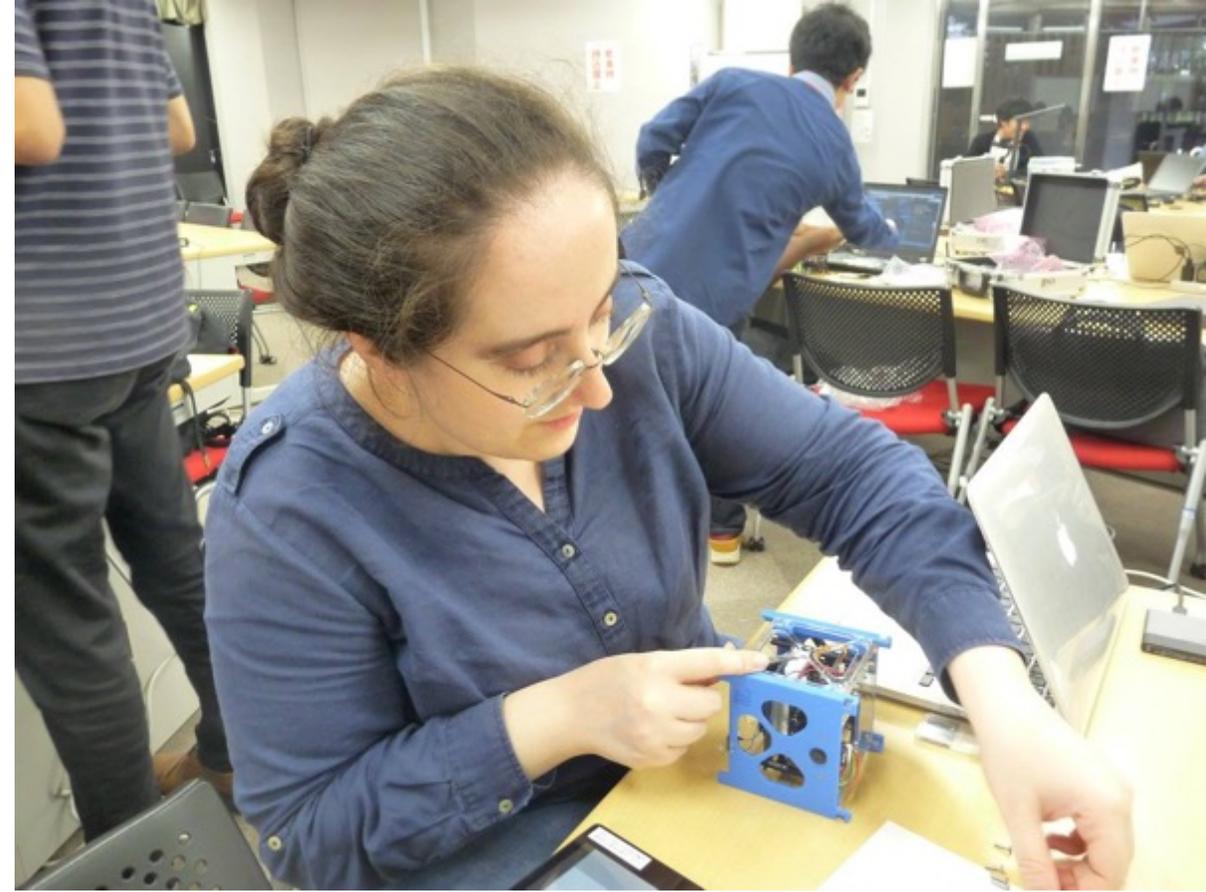
During CLTP

- Had a textbook on tablets & Heptasat Kit



Days 1-3

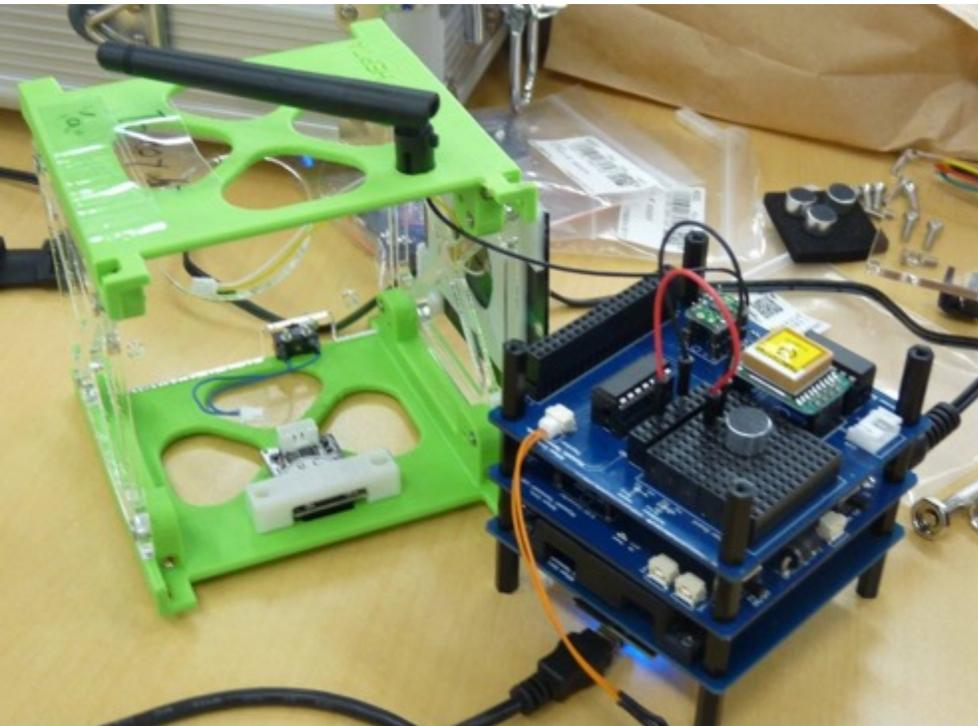
- Learned about main satellite subsystems, how they function and their architecture.
- Assembled, integrated and tested each subsystem.



- Since the satellite in its structure, a fit check is also done.
- Chose a mission and on the day 4 did payload (extra sensors or actuators) shopping in Akihabara

Day 5

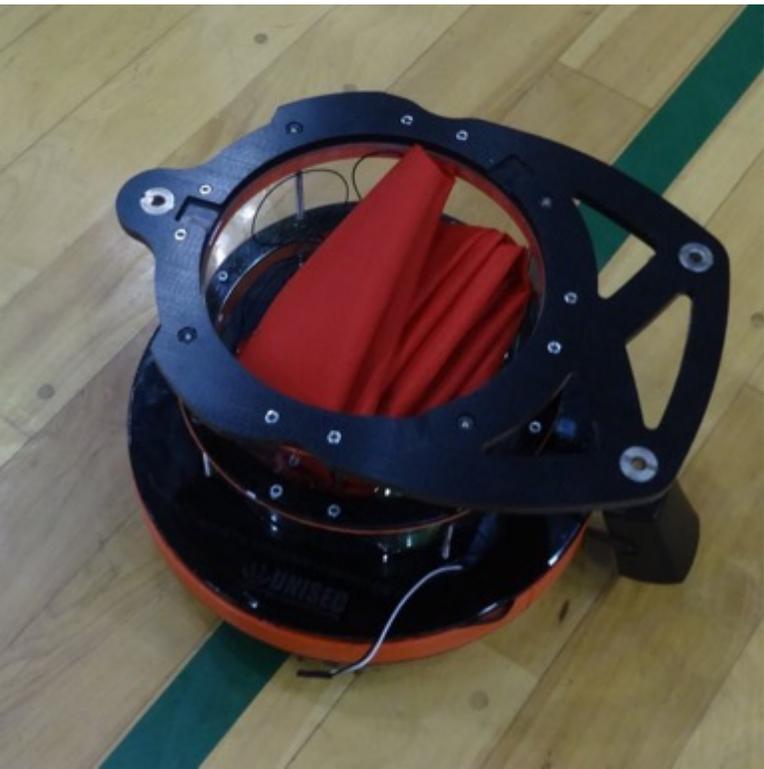
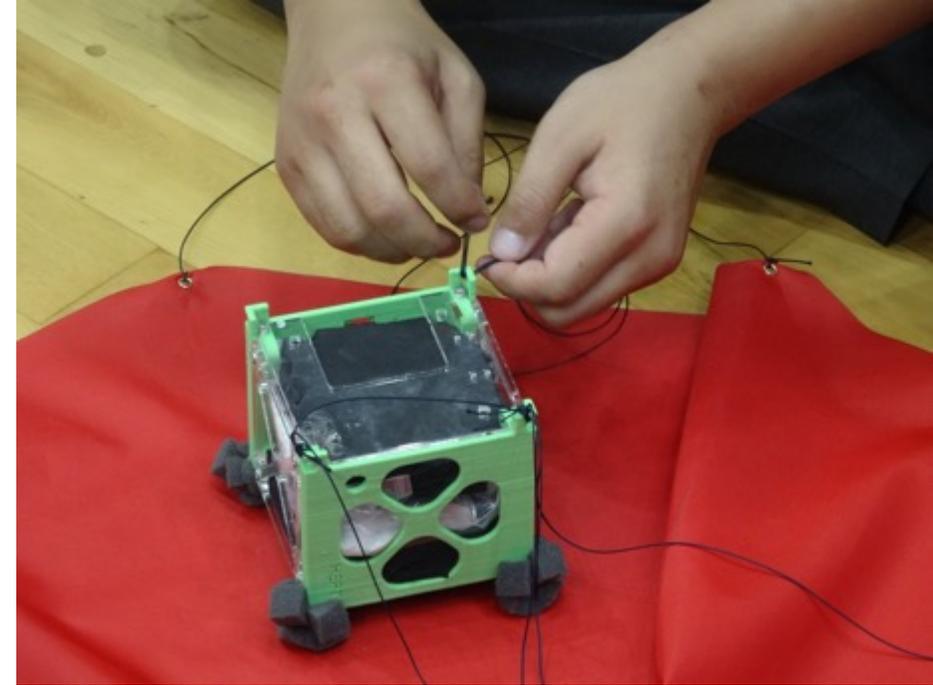
- On day 5, missions were designed.



- Integration of new payloads
- My mission only needed GPS and magnetometer data, therefore I did only coding.

Day 6

- Continued designing the mission and integration.
- At the evening, made a drone test with a final fit check with the parachute.



Day 7

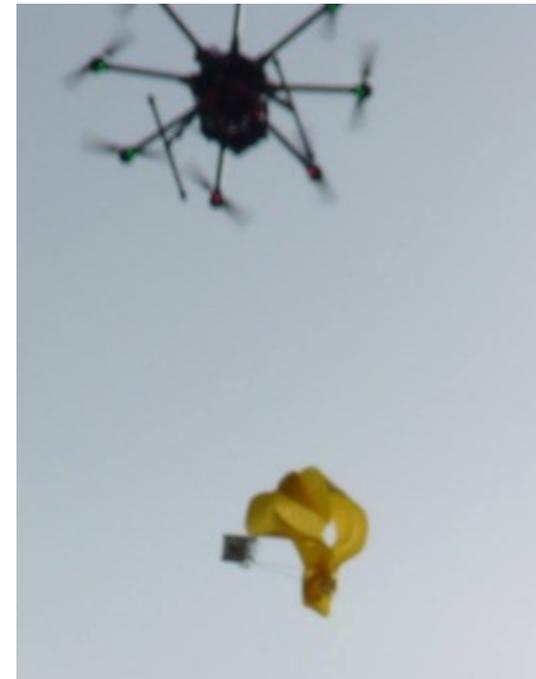
- Thermal tests were conducted.



- Critical Design Review presentations were made, as a last step before launch.

Day 8

- Field test (Launch)
- Attaching parachute to CubeSat
- Inserting to the pod
- Released from the drone.



Days 9-10

- On day 9, mission data analyzed
- final presentations were prepared.
- On day 10, final presentations were made.
- CLTP8 concluded successfully.



After CLTP

- Building a whole CubeSat by myself showed that my theoretical knowledge is consistent with practice. That increased my confidence on my technical knowledge.
- I assisted:
 - 2 Semesters of junior level course in ITU which includes a hands-on Cansat design
 - 2 Cansat bootcamp in Lebanon
 - I followed quite similar way to CLTP8 while assisting these courses.
 - Thanks to CLTP I could help more than 200 students with their first Cansat/satellite projects.
- Both being a CLTP trainee and after the CLTP being able to teaching Cansat to students were extremely valuable experiences.

**Thank you for
listening!**

