



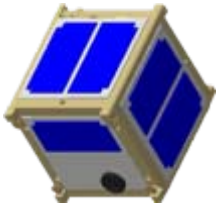
İTÜ pSAT I Update

B. Tayfun Aydın

Can Kurtuluş

Asst. Prof. Gökhan İnalhan

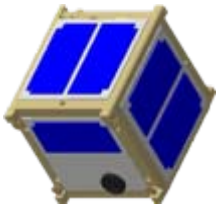
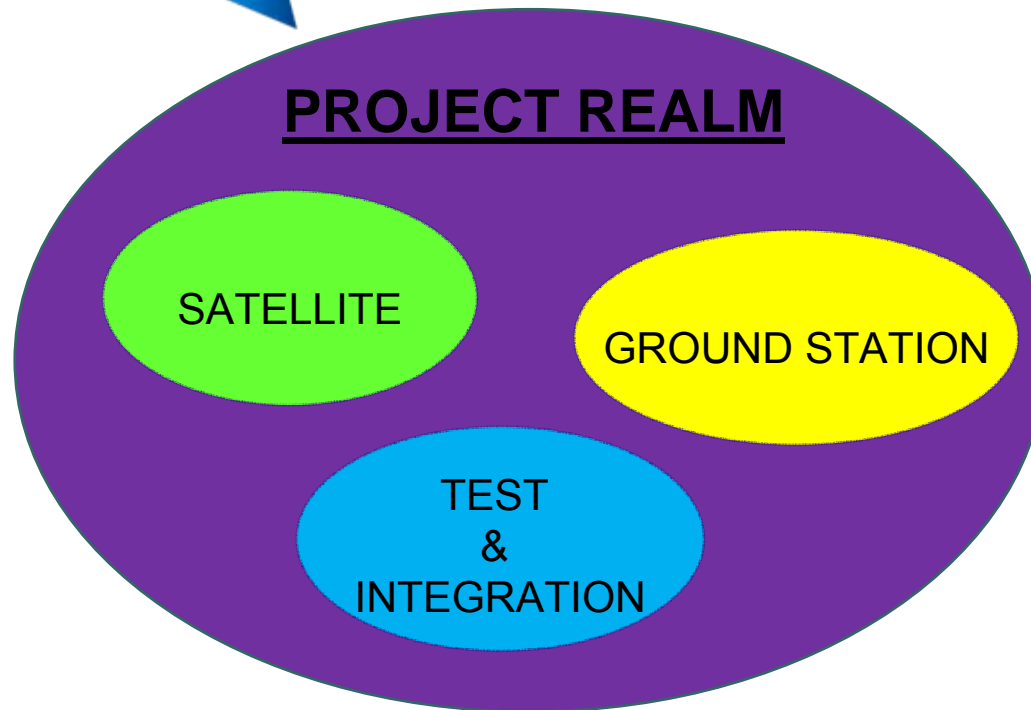
Prof. A. Rüstem Aslan



Project İTÜ pSAT I

PROJECT OBJECTIVES

- *Mission objectives*
- *Educational objectives*





Overview of İTÜ pSAT I



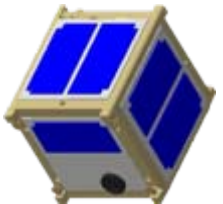
MISSION OBJECTIVES



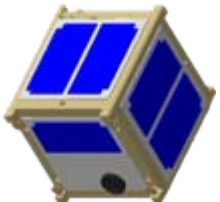
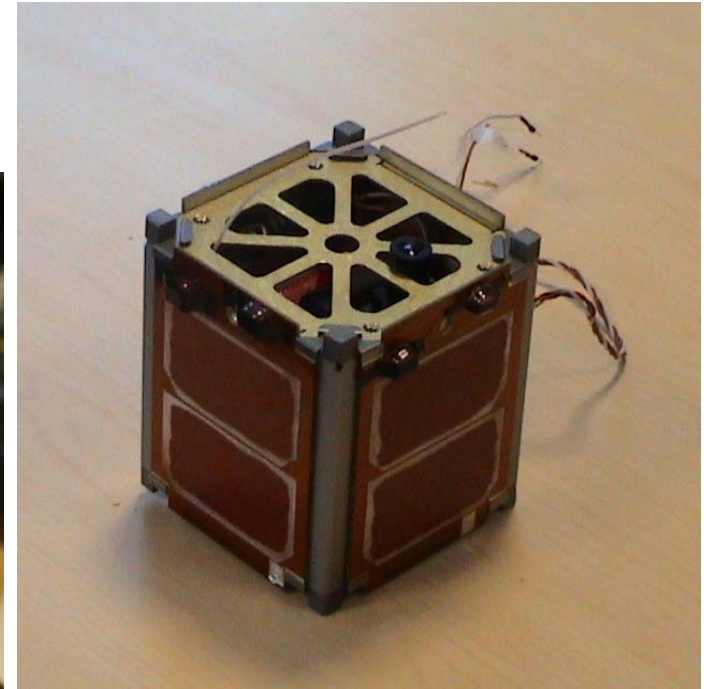
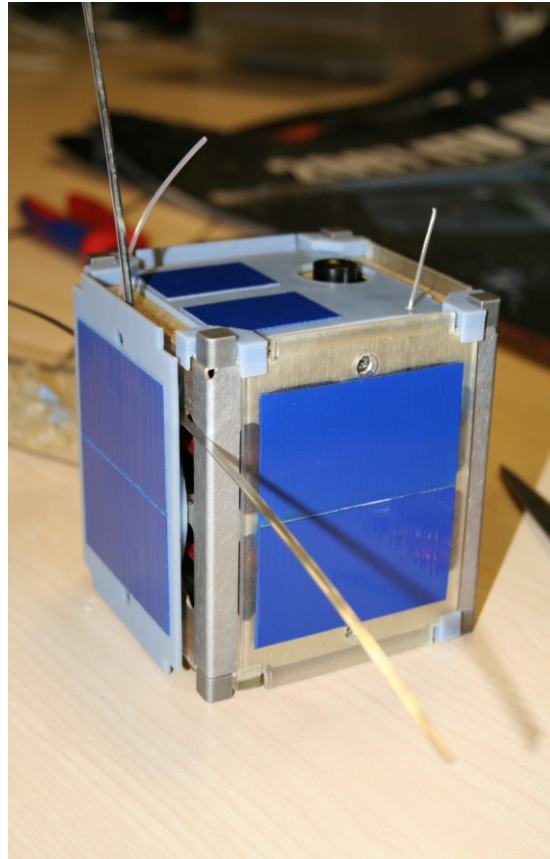
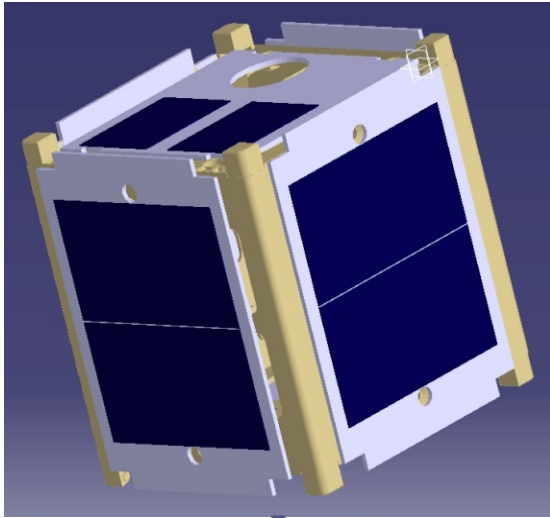
Primary : Image Capturing
Secondary : Examination of the passive stabilization system

BUDGETS:

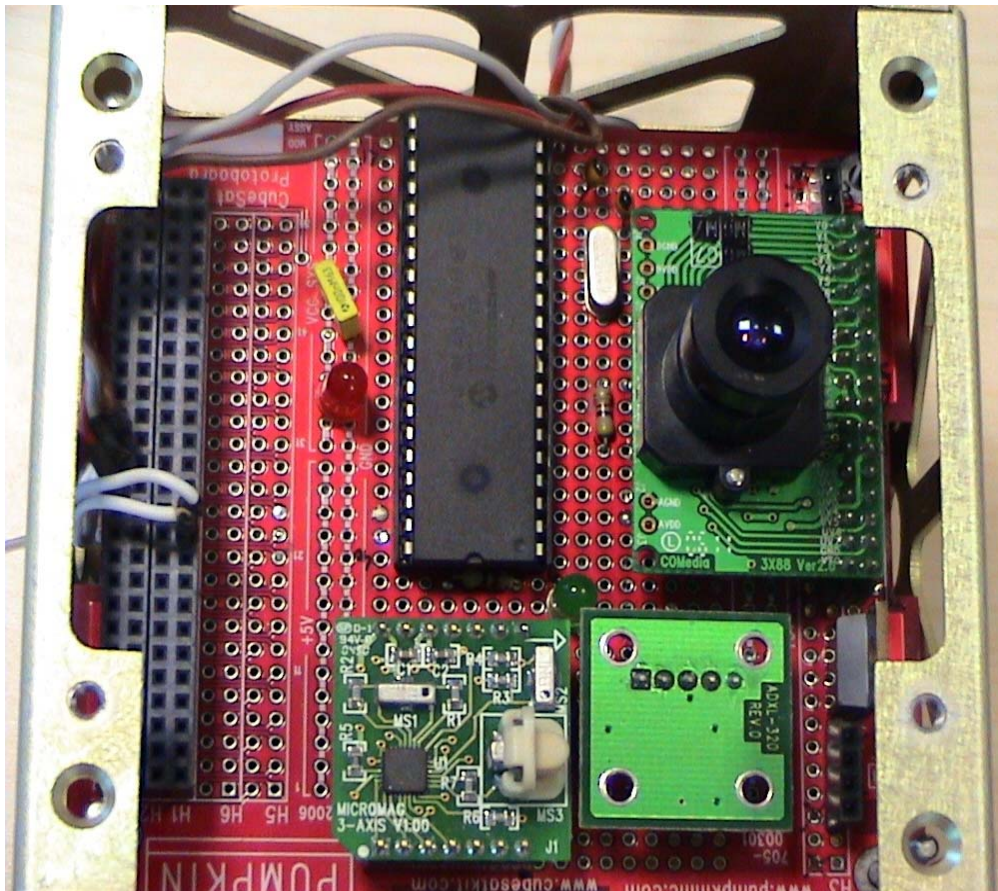
- Mass : 820 g (!!! NOT FINAL MASS !!!)
- Power : ~6 W, 1,155 A (peak values)



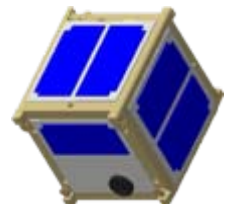
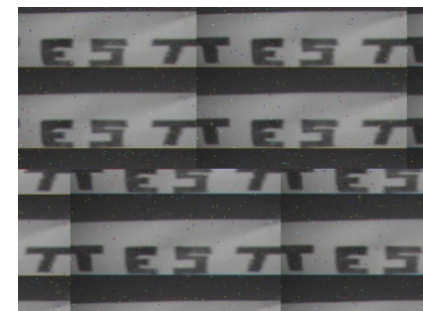
Improvements on pSAT I



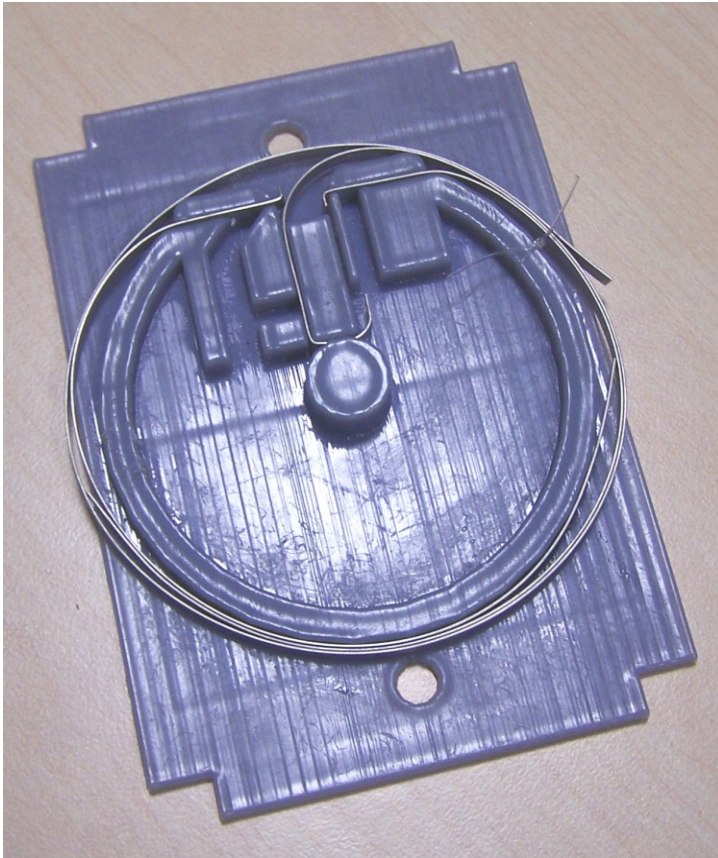
Improvements on pSAT I (2)



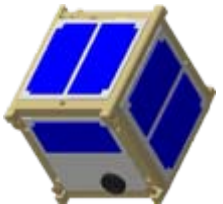
- B&W video transmission (for testing)
- Accelerometer operational
- Beacon operational
- Image recording to memory & transmission



Improvements on pSAT I (3)



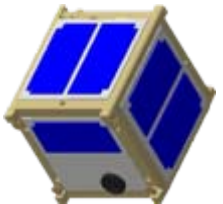
- Conceptual design
- Deployment mechanism
- Integration to the body of İTÜ pSAT I
- Contribution to the mass budget
- Vibration tests & analysis



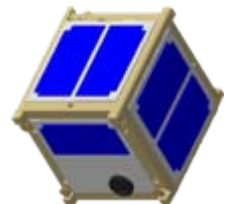
Survival in the harsh environment of Istanbul...



“TA1KS ITU pSAT I Hallo ”



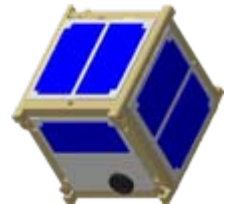
Sensors Operational !!!



Improvements on the Ground Station



- Hardware fully functional
- Ground tests for the ground station
- GENSO

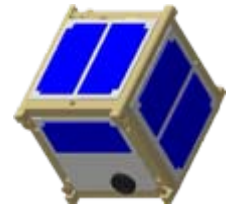


New Generation of Aerospace Engineers



Istanbul Technical University - Faculty of Aeronautics and Astronautics

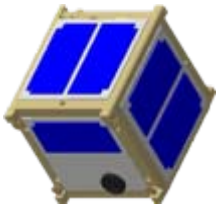
<http://usl.itu.edu.tr>





Future plans...

- Finalization of the antenna deployment system
- Operational software
- Finalization of the design phase of the payload circuit
- Tests of the power circuit
- Functionality of the ground station & tests for GENSO





Thank you, any questions
???

