



**ODTÜ
METU**

AEROSPACE ENGINEERING
DEPARTMENT



**SMALL SPACE SYSTEMS (S3)
LABORATORY**

WE ARE...

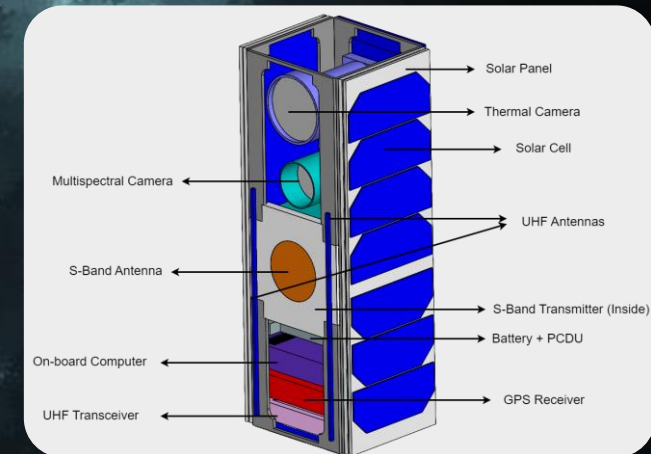
- **A group of 20 undergraduate and graduate students pushing the boundaries of aerospace technology by developing exciting space projects.**
- **Working in a interdisciplinary environment which is open to all space enthusiasts.**
- **Developing the very first satellite by METU.**
- **Solidifying novel space mission ideas and attending international competitions to represent our university.**
- **Building our own space lab which will include satellite test beds and a planetary rover experimental environment.**

APSCO CUBESAT CHALLENGE

- We are developing a 3U cubesat (METUCUBE) for post-disaster assessment and investigation of early disaster warning possibilities.
- Project aims completion of an engineering model as of September 2025.
- Flight model will follow.
- Project is at the PDR stage.



Damage of wildfire in Oymapinar, Turkiye
[Image Credit: Maxar Technologies]



UNISEC MISSION IDEA CONTEST

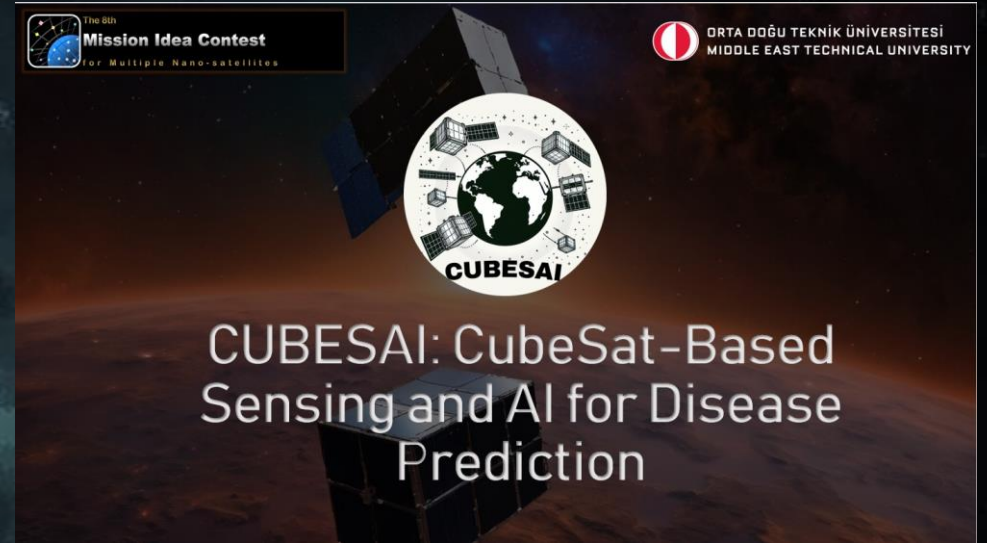


- Our team's asteroid exploration mission idea "PARS: Precursor Asteroid Remote Survey" received the 1st prize at the International Mission Idea Contest (MIC 7).
- Contestants proposed a mission idea utilizing a micro-satellite under 100kg for deep space science and exploration.
- See <https://www.youtube.com/watch?v=OxJ4BWEQCzs&t=192s> for details.



UNISEC MISSION IDEA CONTEST

- Our team was among the finalists and represented METU in the finals which was held in Tokyo.
- The mission was predicting vector-borne diseases with a cubesat constellation.



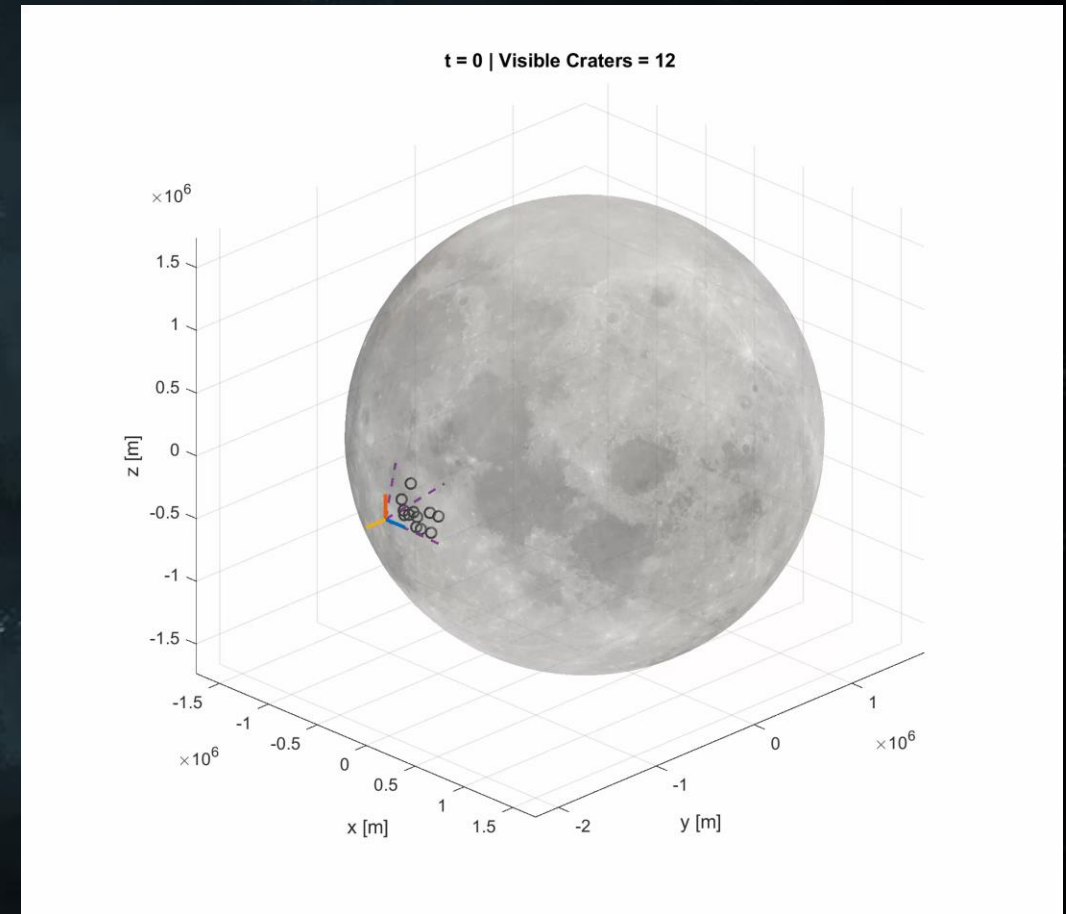
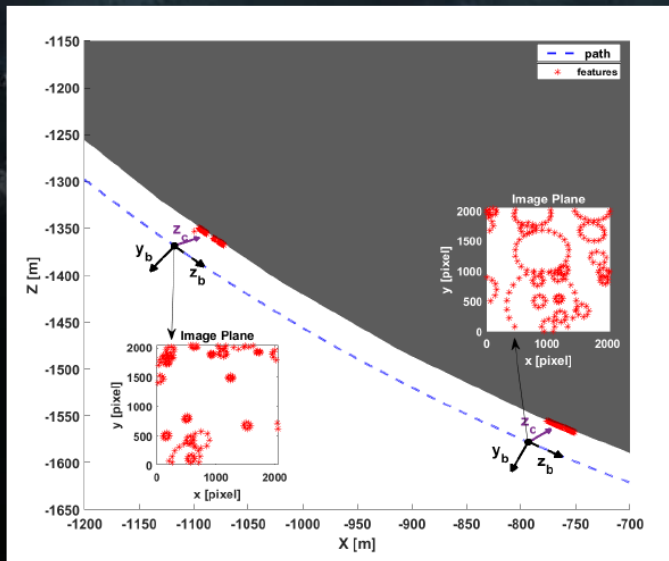
UNISEC MISSION IDEA CONTEST

- Two groups are getting prepared for the 9th Mission Idea Contest.
 - Group 1: Lunar Orbit CubeSat Mission (LOCM)
 - Group 2: Lunar Surface Rover Mission (LSRM)
- Preliminary final will be in South Africa in November 2024.
- Feel free to contact if you would like to join.



TURKISH LUNAR MISSION (AYAP)

- We are supporting the Turkish Lunar Mission in part.
- Researching on the guidance navigation and control for the AYAP-1 and AYAP-2 missions.



JOIN US!



[Google Forms](#)