



UNISEC-EGYPT: Strengths, Weaknesses, Opportunities, and Threats

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Outline

- **UNISEC-EGYPT.**
- **Strengths.** **S**
- **Weaknesses.** **W**
- **Opportunities.** **O**
- **Threats.** **T**
- **Restructure of SSTlab.**
- **Future Plan.**

UNISEC-EGYPT

- It is the first official year of UNISEC-Egypt.
- We thought of reshaping the structure of our Space Science and Technology lab (SSTLab) to make it a model for other UNISEC-Egypt members.



Strengths

- Many years of teaching and research space experience (Egypsat1).
- Experience gained by faculty and students in building models (Cansat, Cubesats, Rovers, Quadcopters, etc.).
- Top students from all over the country.

Weaknesses

- Shortage in managerial or secretarial staff.
- Shortage in technical staff.
- Lack of equipments and good quality sensors.
- No dedicated budget for research.

Opportunities

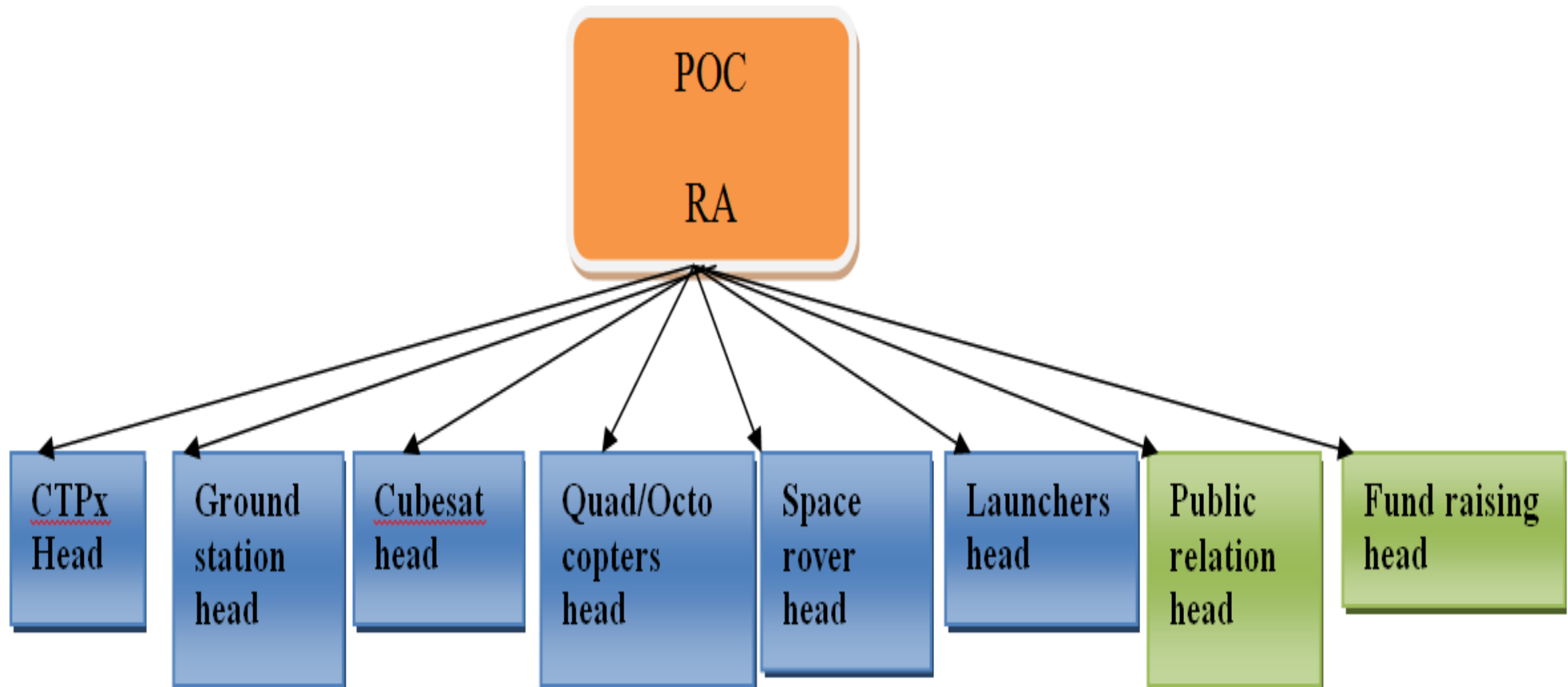
- There is an increase in the number of students to study Aerospace Engineering.
- We started to get requests from different universities and research institutes to join UNISEC-EGYPT such as:
 - Alexandria Library,
 - Zwail University,
 - National authority of remote sensing and space sciences.

Threats

- The main threat is the bureaucracy.
- It became harder and harder to acquire new aerospace related equipment and sensors due to security checks and paper work.
- There is also difficulty in funding as most of the money is spent on security.
- There are five universities applied to establish space programs.

Restructure of SSTLab

- The new structure consists of eight groups and headed by UNISEC POC.



CTP'x GROUP



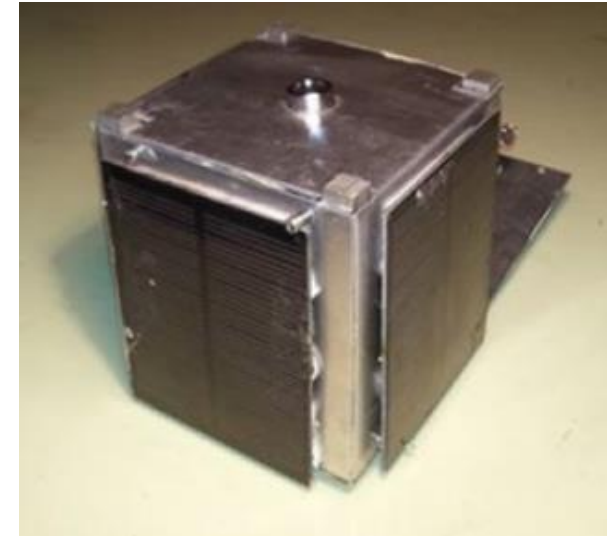
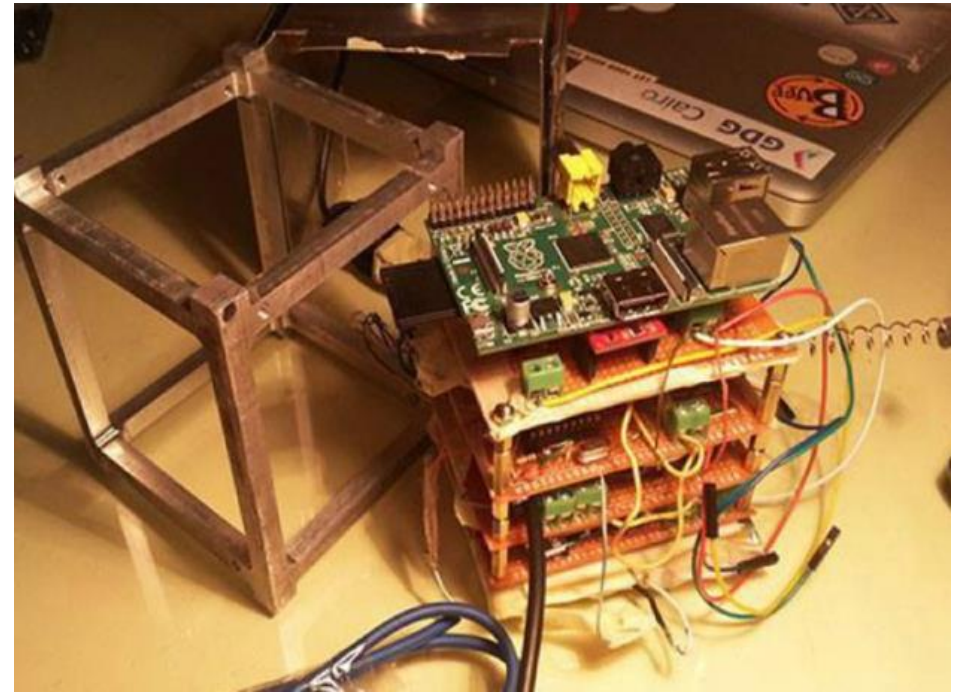
CANSAT



GROUND STATION GROUP

- The group is established.
- Working on building our own satellite propagators and trackers software.
- Working on the feasibility study for equipments.
- Facing problems with security permissions.
- Facing problems with funding.

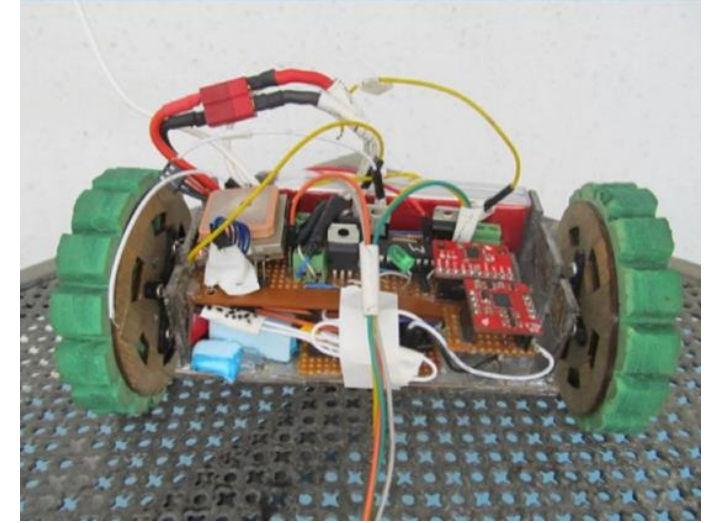
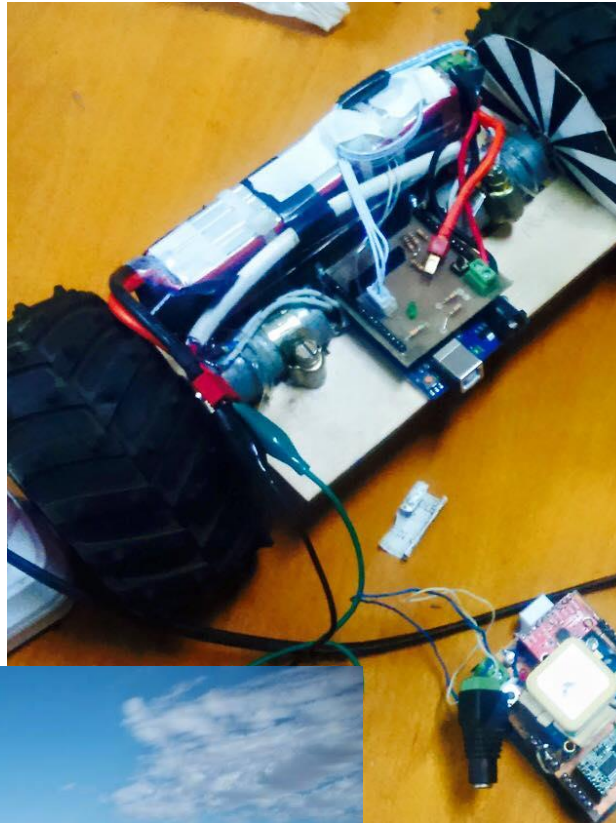
CUBE SAT GROUP



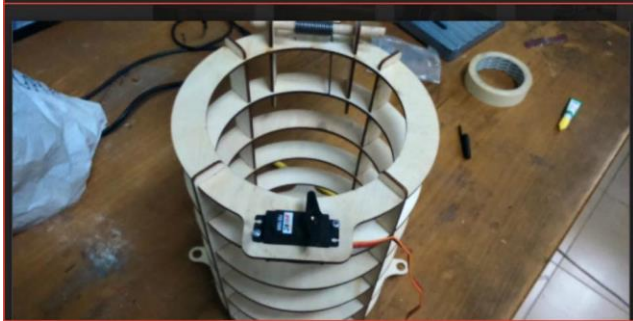
QUAD/OCTOCOPTER GROUP



ROVER GROUP



LAUNCHER GROUP

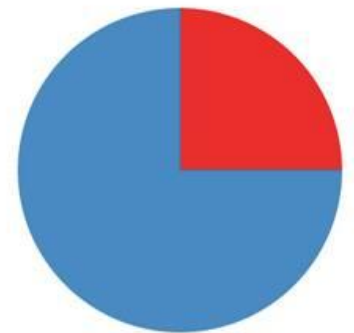


Public Relations and Fund Raising GROUP

- A major step must taken to secure funding.
- We made two groups for that.
- The two groups work together.
- Anniversary



75 years since inception - 25 years since 1st full program graduation



Future Plan

- Continuing CanSat Education (CTP6, CTP7,....)
- Competing nationally and internationally (EED, ARLISS, MIC, etc.).
- CubeSat (moving to engineering Model).
- Blending with Egypt's space research plan and cooperating with different Egyptian research institutions such as NARSS and Ministry of scientific research.

Thank you

Ready for Questions

