



The educative nanosatellite of the University of Liège,

BELGIUM

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Liège?









Outline

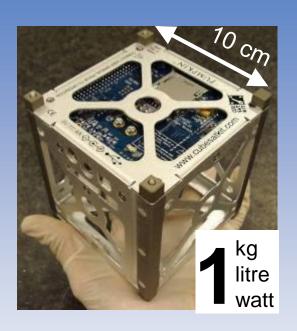


- 1. The OUFTI-1 project
- 2. Mission objectives
- 3. Organization
- 4. Various actors
- 5. Involvement of the students
- 6. Lessons learned
- 7. Conclusions



1. The OUFTI-1 project





CubeSat standard



ree payloads VEGA Maiden Fligh October 2010



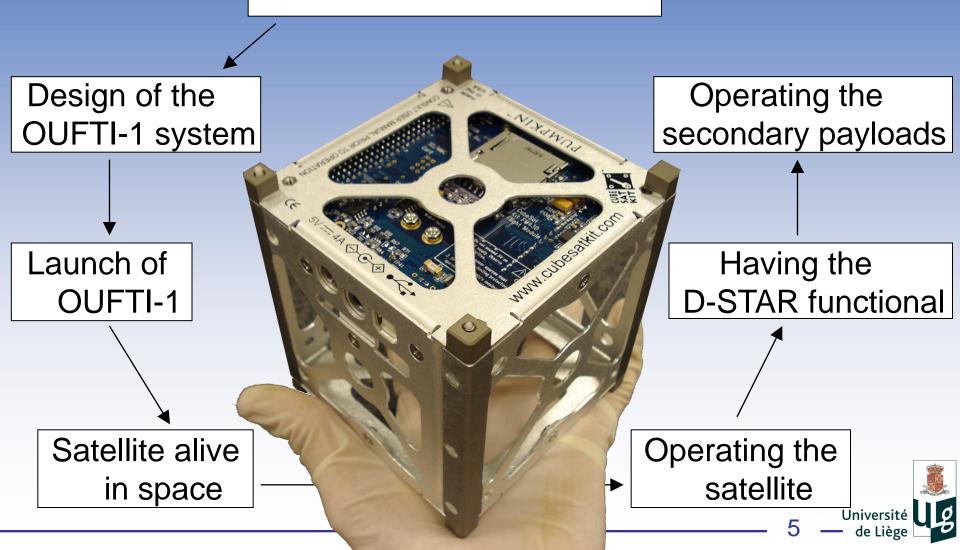
→ How to maximize hands-on space education?



2. Mission objectives



Fun and education



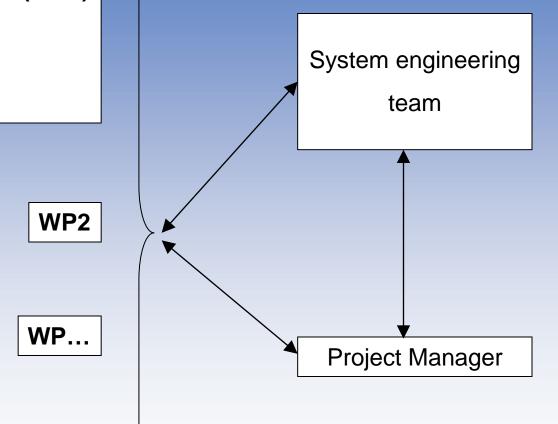
3. Organization



Work Package 1 (WP1)

WPn

- 1 task
- 1 student
- 1 advisor
- 1 specialist



Université Ug

4. Various actors



Students (university + engineering schools)

Professors

Industrials



Ham-radios

Graduates

... and family!





5. Involvement of the students



Unusual MS thesis:



Team spirit



Industrial approach



Discussions & decisions Communication







6. Lessons learned (1)



- 1. Need for full-time project manager and well-defined organization chart
- 2. Technical issues are not the most time-consuming
- 3. Multidisciplinary team: not easy to manage, but really enriching
- 4. Strong interest & support from academics, ham-radio community, industrial, and general public
- 5. Real & great CubeSat community spirit

6. Lessons Learned (2)

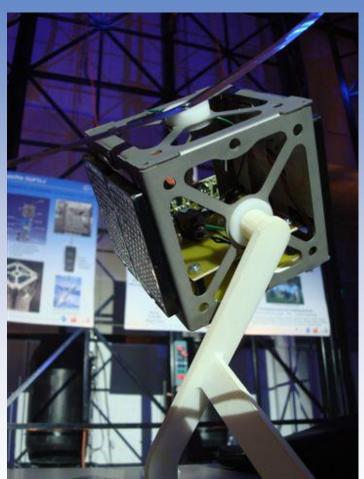


- 6. Crucial need for rigorous documentation
- 7. Everybody (not only students) learns!
- 8. Interfaces can not be managed by students
- 9. Autonomy and initiative spirit must be learned

7. Conclusions



- → How to maximize hands-on space education?
- Give education the priority amongst the objectives;
- Organize your team:
 - efficiently
 - in a way that gives the students freedom and various contacts...
 - ...but within well-defined interfaces;
- Really involve the students in all topics, technical or not;
- Have fun!



www.oufti.ulg.ac.be









Thank you for your attention!





































