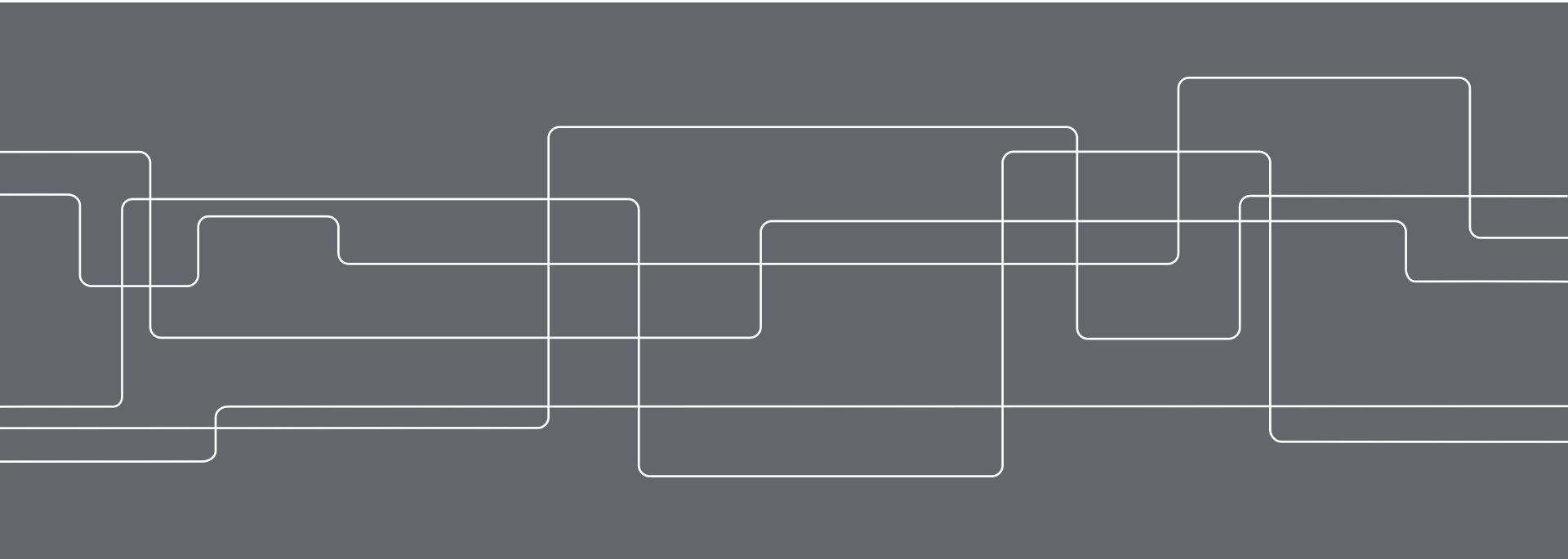




A student satellite project

What do students learn?

Sven Grahn, Project Manager, KTH Space Center

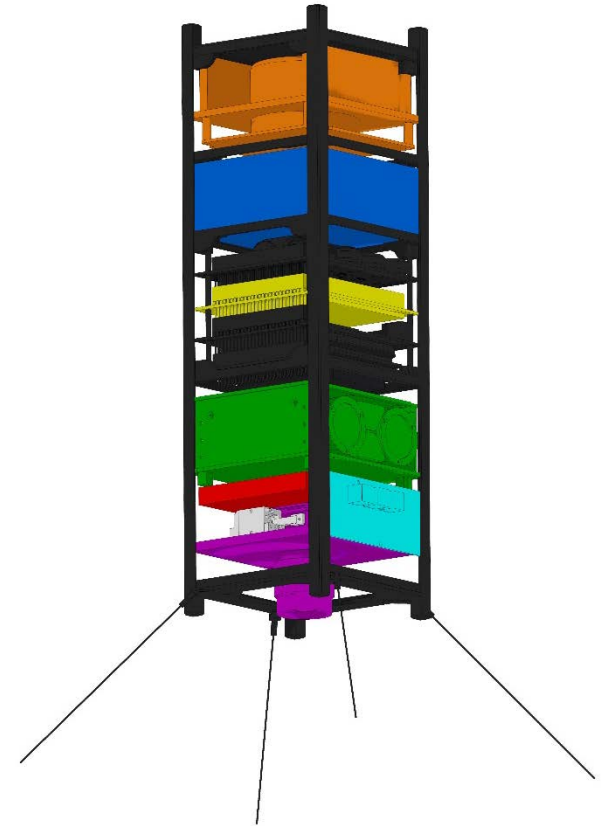


Why a satellite project to attract students?



MIST – the MIniature STudent satellite

- 3U Cubesat (≤ 4 kg)
- Eight experiments
 - ✓ Detector & technology tests
 - ✓ Life science
- Polar orbit at < 640 km
- ≈ 8 students per semester
- Overlap between teams
- B.Sc & M.Sc. theses in spring
- Started in January
- Launch in 2-3 years

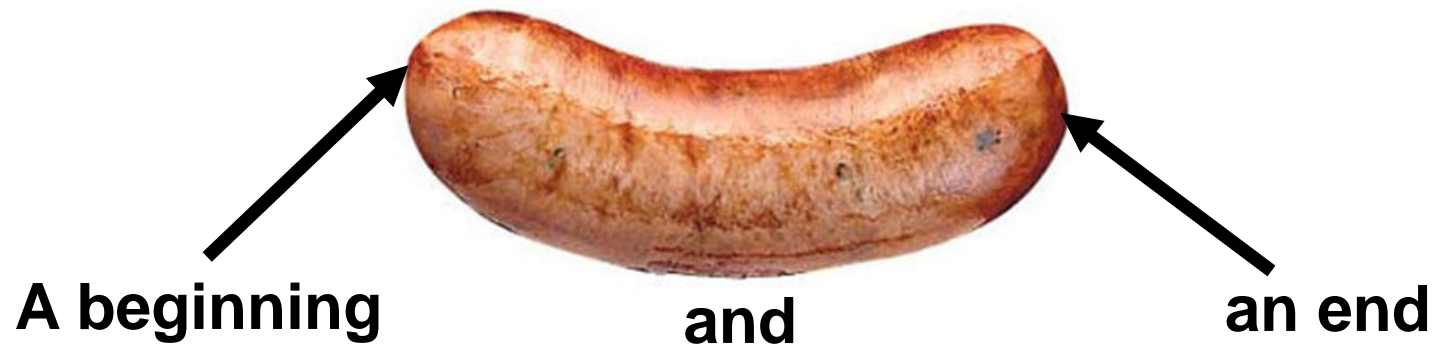


So students learn about space technology & system engineering

They also learn about the nature of projects

What is the similarity between a sausage and a project?

They both have:



**A project is
a temporary organization
set up to perform a specific task**



What I also try to teach the students

The ethos of engineering

- Do more with less.
- Attention to detail in all phases. Worry!
- Assumption is at the root of all mistakes. Think!
- If it is not tested it **will** fail.
- Document what you do – be professional.

Teamwork in the real world

- Do not play schedule games!
- If you are late – say so!
- Don't ask what your co-worker can do for you, ask ...

I hope they get a foretaste of work in industry.

KTH – where the future starts!



Agnes, Vincent and Sharan from MIST team nr 1

The MIniature STudent Satellite



MIST