

SSL – what is it?

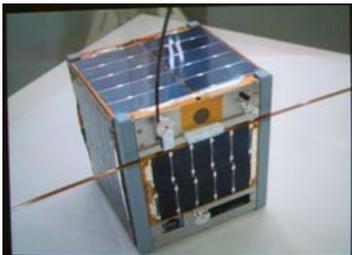
SSL is a newly designed laboratory in the Department of Innovative Technologies (DTI) at SUPSI (<http://www.spacelab.dti.supsi.ch>)

What does it offer SUPSI students?

The opportunity to design, develop, launch and monitor their own satellites, in order to test the knowledge acquired in the courses covered by the engineering curriculum.

Why satellites?

Space in general, and satellites in particular, constitute a powerful teaching tool, with regard to stimulating motivation, responsibility, innovation and enthusiasm.



Satellite design requires precise and original solutions to a wide range of very interesting technical and scientific problems.

To the advantage of companies and services

...if you tell'm (students) **“build a telephone”**, they won't be excited. If you tell'm **“build a spacecraft”**, they will. So get them excited and make them learn!! We'll hire them.

This was what representatives of major car manufacturing and mobile phone companies said about an initiative like SSL in Korea.

Nowadays technology is considered as acquired and the younger generations tend to be prejudiced against difficult and boring engineering courses.

In various studies conducted at both the European and global levels, the demographic pyramids of those working in science, and in technology in general, indicate a disturbing aging trend in the population of this sector.

SUPSI is sensitive to this problem.

Overcoming this prejudice, and trying to remedy the aging trend of technicians and scientists must be one of the strategic priorities adopted in order to maintain the quality level required by our companies.

The SUPSI Department of Innovative Technologies (DTI)

The DTI provides well-founded engineering courses, structured in the following study cycles: electronics, computer science and machine technologies.

The basic course of study is accompanied by applied research and technology transfer, post-graduate courses and masters degrees, as well as by numerous activities built up through time, pursuing a prolonged tradition of innovation.

The objective

Displaying its characteristic courage in developing concepts in unexplored sectors, SUPSI, with its Department of Innovative Technologies, now offers its students the adventure of space as an incentive to study science and technology.

The large number of skills assembled in our University will make it possible to aspire toward increasingly ambitious missions, including scientific experiments for third parties.

An original idea

SUPSI is the only institution of its kind in our Country to offer its students and partners access to space.

Would you like to be part of this?

Become a SUPSI partner, sponsor its *SpaceLab* laboratory.

All forms of support are appreciated

- financing
- services
- material
- specific consulting services
- ...

<http://www.spacelab.dti.supsi.ch> will display your brand.



SSL – Specific projects

Two lines of activity are followed at the SUPSI Space Laboratory: an American line and a European line.

CubeSat

CubeSat is an idea conceived by Prof. R. Twiggs, Stanford University, Palo Alto, CA USA.

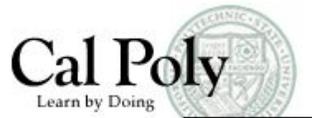
Students design, develop, build and manage in orbit 1dm³ and 1kg satellites (<http://www.cubesat.org>).



Space Systems Development Laboratory (SSDL)



At CalPoly in S. Luis Obispo, CA USA, our students conduct the final pre-launch tests.



The **European Space Agency** promotes and supports the development of a new network collaboration culture that will help students accomplish complex space projects



The “*Student Space Exploration & Technology Initiative*” (SSETI) is the student organization entrusted with the implementation of the international collaboration network.

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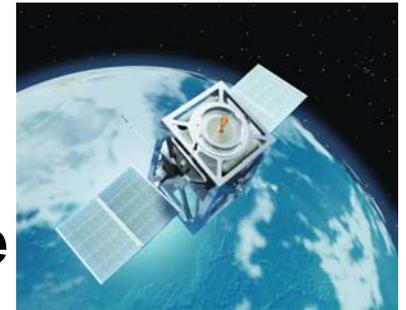


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SUPSI

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