SKIL

Student Creativity and Innovation Laboratory

A new educational infrastructure for ENAC students.

A workshop environment for bottom-up, hands-on projects

– in the framework of Projeter Ensemble
Student Creativity and Innovation Laboratory

What do we want to achieve?

We want to create an environment that, for a fraction of our students time:

◆ Allows to break with standard, top-down, professor-driven teaching

◆ Allows to train ‘softer’ skills: Creativity,
  Initiative,
  Group-work,
  Planning,
  Communication..
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The physical frame-work – the SKIL building:

- 15 containers
- About 200 m² functional space
- Think of it as an atelier or workshop
In the SKIL building there will be space for ideation/discussion and tools to work with a wide range of materials and components:

- wood
- metal
- glass
- plastic
- textiles
- optical fibers
- light sources
- drones
- 3D printers
- electronics
- design software
- small sensors
- robotics
- micromechanics
- optical fibers
- micromechanics
- apps development
- cameras
- audio-visual
- computers
- microfluidics
- solar cells
- sewing machine
- microscopes
- simple chemistry?
The SKIL will also have:

A lab-manager (TBD):
- Maintenance of SKIL space and safety
- Instructing students in use of equipment

A SKIL coordinator (Samuel Cotture)
- Interfacing with students
- Monitoring day to day progress of projects
- Overseeing:
  - A dozen hands-on coaches (primarily from ENAC -> EPFL e.g. PhD-students / Postdocs / Technical- and Scientific personnel /Profs?)
  - Organize events & workshops
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The SKIL will have a clear place in the ENAC curriculum (from spring semester 2018).

Projeter Ensemble:
- Unités d’Enseignement (from 2018)
- ENAC weeks (as of spring 2019)

But also for Semester Projects

... and other student projects (accepted after review of students proposition).
The SKIL process.

Typically, a process with different phases:

- Brainstorming / Ideation / Pitching
- Implementation
- ‘Online’ adjustments w. coaches
- Half-way presentation (audio-visual?)
- End of semester: each group presents the ‘story’ of their project.

Emphasis of evaluation will be on the process.