

YSOFT BE3D™ IN EDUCATION CASE STUDY

YSOFT BE3D EDEE, THE CORNERSTONE OF A MAKERSPACE PROGRAM



EDEE, THE CORNERSTONE OF A MAKERSPACE PROGRAM

Bergeland, established in 1853 is an upper secondary school with about 500 students. Offering high school courses as well as vocational and study preparation programs, Bergeland combines academic and social learning.

CHALLENGE

Bergeland's philosophy made 3D printing a natural technology for the school to consider. With the art, design and architecture students and teachers leading the way, Bergeland became interested in 3D printing in 2017.

The school initially experimented with another 3D printer but quickly concluded they needed an all-in-one solution that allowed them to manage usage, costs as well as safety and security. With very specific goals for 3D printing, Bergeland's mission was to incorporate it into the learning experience, offering a way for students to be creative and educate them on tomorrow's technology now.

As a school, safety was an obvious concern, especially because they wanted to locate 3D printers in an open, accessible and unsupervised environment. Skills and knowledge were also key, the teachers needed to be able to use the 3D printer with minimal training. And, of course cost was a major factor, how much would an all-in-one solution that met all of Bergeland's requirements cost?

The school has been really impressed with what students can achieve with 3D printing. There is a lot of interest in the technology from both students and teachers who experiment regularly with different 3D models. The quality of YSoft be3D eDee prints are very good.

— **Thomas Ekornrød, ICT**
Bergeland Videregående Skole

SOLUTION

Bergeland chose YSoft be3D eDee to create a social arena for their Makerspace Program. Each eDee printer is enclosed with locked doors and combined with 3D print management software, provides an open, secure and safe space for students and teachers to experiment. All of this is provided at a cost that suits the school's budget. The YSoft be3D eDee solution comprises of:

- A YSoft be3D eDee 3D printer
- DeeControl layering software
- Y Soft certified filament
- YSoft SafeQ Print Management software

RESULT

The teachers know how to use YSoft be3D eDee and all the eDee 3D printers are openly available to Bergeland's students.

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The 3D printing benefits experienced by Bergeland include:

- Safe & secure 3D printing
- User-friendly printer and software
- Good quality 3D models
- A cost-effective solution

Because the school has the 3D printers in an open area; in the library and elsewhere, the ability to manage who can access them is invaluable. Students use their username and password. The security that YSoft be3D eDee offers is also proving popular. 3D models can take a while to print and the student may not be at the printer when the job is finished. Because the doors lock and are only opened when the job owner logs in, the model cannot be taken by anyone other than the project owner.

Going forward, an element of a development project at the school is to define and reach new goals for 3D printing.

Not only is the quality good but it is easy to use, and other students learn it very quickly. From an IT perspective, the security is really great.

– Simon Vestvik Edland
Student/IT Apprentice