

experience

[01]

Why?



Dirty hands. Noise and odor. Heavy metals. These are the images that many people have of technology. Leonardo Experience shows a different world of technology, a quickly developing world. Young people experience how they can use their creativity by using the latest equipment to develop specific new products. Leonardo Experience is located in the heart of Leerpark, an inspiring new educational and cultural area in Dordrecht, The Netherlands.

Who?

Leonardo Experience is a joint initiative of the Coöperatie Leerpark and the Da Vinci College High school. Leonardo Experience aims to allow more students to participate in these innovative workshops. This is an important investment required to meet future demand of trained technical personnel in the region.

Between 2010 and 2015 companies in the Drechtsteden expect to employ 7000 fresh High school graduates.



technology

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Inspired by



Leonardo Experience meets the challenges of future technical education in creative ways. The Experience is named after Leonardo Da Vinci. This artist and scientist was ahead of his time because of the way he thought and worked. He came up with many different inventions. Da Vinci made his dreams come true by converting his ideas into unique products.

Leonardo Experience aims to offer its students this same unique experience. This is achieved through three pillars, namely: Educational programs
Product innovation
Prototyping and Testing

Educational programs

There are tailored educational programs developed for primary school pupils, High school students and graduates. The target is to let young people experience the process of dreaming, creating and producing. Besides technical classes there are also workshops for individual students, employees of businesses and visitors. For example, participants can learn to design with Google SketchUp or CorelDRAW and transfer their computer design into a tangible printed product.

Dream_Create_Produce



Leonardo Experience follows the method of dream_create_produce. The preparation - the dream phase - takes place at the schools. In our X-Lab, the designs are further developed with the help of experts (create) and converted into prototypes (produce). Prototypes can be created quickly thanks to the use of advanced (computer) equipment. The lab features a 3D printer and a laser cutter which transfer the computer drawings in no time to both acrylic and wooden objects.

in a different

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Product innovation



Leonardo Experience draws a bridge between Business and Educational programs by bringing them together. Student teams of the Hogeschool Rotterdam and the TU Delft are now designing a more sustainable and integrated system in a contemporary housing.

In collaboration with Leonardo Experience, the Verkerk Groep and students of the Hogeschool Rotterdam are making improvements on a motion detector. They are working together on both the infrared sensor, the circuit board and modernizing the housing.

The detector monitors movements at a height of about 15 inches above ground level throughout the area. Once the resident or patient is in bed, the system can be put on standby. When the user steps out of bed, an alarm will sound. The alarm will ring at the nursing post. The system can be connected to the Verkerk Service system and also with other nurse calling systems. It is easy to install and provides an excellent method of monitoring people with limited mobility.

Prototyping & testing

When a company or student has a design that needs prototyping (occasionally after innovating a product) this can be done by the 3D printer in the X-lab.

In this process, students and clients can easily learn from mistakes or design flaws at an early stage. All of this whilst holding an actual tangible product in their hands at the end of the day! As an example Leonardo Experience produces models of buildings for an architectural bureau.

The facilities of the X-lab are open to both educational institutions and businesses alike.

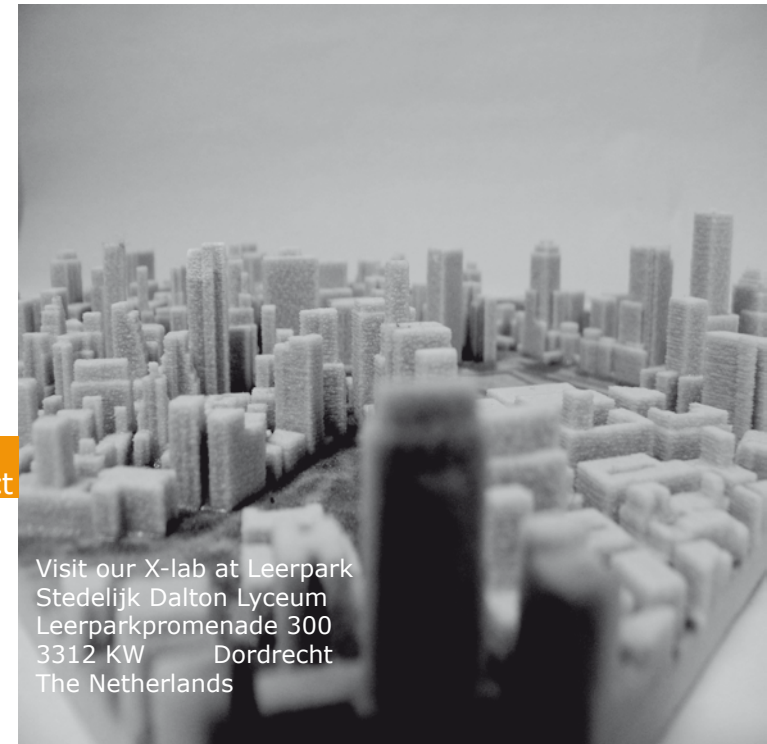


& modern way

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Lex-team

Leonardo Experience works with as many orders as possible from the business world. Students approach these real world problems by thinking, experimenting, researching and finally offering a solution. Where innovations are required Leonardo Experience will set up a brainstorming session. The members of this Lex-team consists of students, professors and other creative souls from all walks of life.



Contact

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