

W O R  
K . P L  
A C E M  
E N T



This report was written as part of my studies in graphic design. We had to find an organization willing to welcome us as interns. We could put in practice what we learned during the last years and established a network for the future.

With this report, I want to present the research I did during my work placement but also explain the vision of the place where I worked these for two months. I learned many useful things during this work experience, especially how to control machines and how to present them in front of groups of people.



THE DESIGN COMPANY



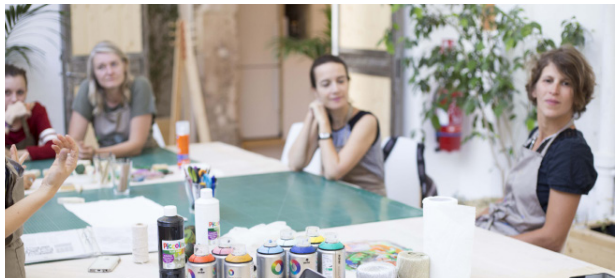
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MY WORK 11 — 14



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**Interested in new technologies and craftsmanship, I wanted to extend my knowledge in a makerspace, a place to design and to create.**

I did a work placement at Make it Marseille, a venue in Marseille which is dedicated to creating, including shared workshops and a coworking space. It is a place, created by Emmanuelle and Vincent Roy, where people's talents can blossom and produce, the general public can learn and businesses can stimulate their teams creativity. Make it Marseille's goal is to provide craftsmen, designers and creators with the tools they need to develop their work.



*The makerspaces.*

## MAKE IT MARSEILLE

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This workspace benefits from different rooms: wood and metal workshops, textile, leather and jewellery studios and coworking spaces. Creators, freelancers and thinkers of all kinds, from jewellery makers to photographers, graphic designers to metalworkers can come to spend time and create together. The goal is to encourage creativity and to create a crossroad where professional craftsmen interact with the world of innovation.

Make it Marseille, with 450 square meters dedicated to creation and about 45 machines, is especially well received in a city where anything is made possible.



*The coworking space.*





*The wood workshop.*

## **A MAKERSPACE**

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Usually, a makerspace is considered as a collaborative work space to make, learn, explore and share. These spaces offer a variety of equipments including 3D printers, laser cutters, CNC machines, soldering irons and even sewing machines.

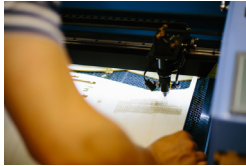
Over the years, the definition has developed to become more than just a collection of machines. It is also a social workplace for makers. In fact, the key element of the makerspace is the collection of machines. In fact, without them, there would be no possibility for making. The second key element of the makerspace is the workplace as a social community: people working on different projects in the same workplace often help one another. This is motivating. Then, the goal of a makerspace is also to support the community of makers.

## THE MACHINES

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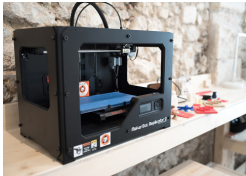
### LASER CUTTERS

This device is able to cut and to engrave materials (thin wood, Perspex, textiles...) with high precision.



### 3D PRINTERS

This device enables to make a virtual design of an object we want to create.



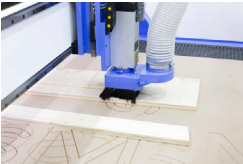
### SEWING MACHINES

These machines are time saving to make clothes.



### CNC MILLING MACHINES

A milling machine is able to mill a 3D shape from a digital drawing in any material with high precision.



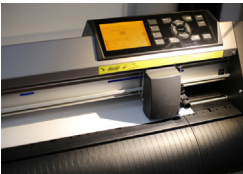
### MACHINES FOR JEWELLERY

Rolling mill, ultrasound box, polishing machines, regular tools...



### VINYL CUTTERS

This device can be useful to create stickers.





## SPACE PLANNING

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First, I had to think over the workspace in order to reorganize it. I needed to remain in the universe of the space.

In that case, I decided to take things in hand by meeting the makers to find out if they needed changes and improvements.

## MAKERS' DATABASE

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Afterwards, I was responsible for collecting information about makers: profession, activities, skills, latest projects, contacts details... to create a makers' database and to enable them to get in touch if they needed something specific that a maker had already studied. I made a poster that I hung on the entrance wall that everyone could read.

**That step was essential: it was easier for me to be introduced, moreover makers got a chance to meet.**

*The workspace.*



## **COMMUNICATION**

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At the same time, I was in charge of the communication. Even if I liked to handle this communication, it was a bit repetitive. In fact, I daily updated the website and once a month, I handled the newsletter contents then, I sent the schedules by emails to the subscribers. However, effective communication with clients plays a vital role in development of an organization and success of any business. It was really important to focus on communication.

I also handled the social networks, especially Facebook. It was more interesting because I set up contact with people. I created the new events and I regularly posted news on Facebook.

## EVENTS

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I took advantage of this opportunity to discover the events: some workshops led by different people. I got the chance to meet some of them: designers, architects, jewellers, craftsmen...

**I could also participate in workshops. There was a wide variety of workshops to enjoy, for everyone.**

Workshops are open to children and adults, so they can express their creativity, share their ideas. Anybody interested in building something can come to Make it Marseille and take part in workshops.

**These workshops offered the chance to help spread knowledge, to share skills and passions between organisers and makers. This is a new way to take graphic design up and to get new experiences.**



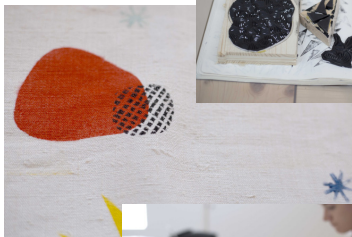


**WORKSHOPS  
COLLECTION**

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*A book creation: a workshop intended for businessmen.*





*A graphic landscape with stamps  
#1 : a workshop intended for  
children and adults.*

*A graphic landscape with stamps  
#2: a workshop intended for  
children and adults.*







## LASER CUTTING

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### 1.

#### A DEFINITION

Laser cutting is a technology that uses a laser to cut materials which is typically used for industrial manufacturing applications. It is also used by schools, small businesses such as Make it Marseille and hobbyists.

**Nowadays, the precision levels and edge quality achieved with laser cutting machines are better than traditional cutting methods. This technology also enables to cut complex shapes at a similar or faster pace than other cutting methods.**

While I worked at Make it Marseille, I used these machines. In order to keep the universe of the space, I created some letters made of wood: Make it Marseille, scheduling, ... I drew the lettering with Illustrator. Then, I used the laser cutter to engrave and I worked on the CNC milling machine to cut the wood.

**In other words, I explored how to design and to prepare a file to be used by the digital fabrication machines (3D printers, laser cutters, CNC milling machines, etc.) because in the process of digital fabrication, a key is to know how to develop a design on your computer and how to ‘talk’ with the machines.**

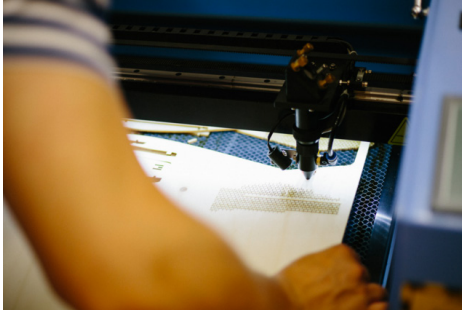
It is important that members of any maker community have a better knowledge about what can they do with the machines. It will prevent who wants to use the machines from having bad surprises when they start to use them.



*Wood characters.*



*The laser cutter.*



## **2. A NEW WAY TO DESIGN**

Since the Industrial Revolution, the standardized objects and repeatable processes vastly improved productivity but at the expense of variety and in a relatively short period of time, laser cutting became common technology in the daily lives of people.

**As technology has become more affordable, laser cutters are becoming readily available to someone wishing to explore the subject. Nowadays, the laser cutter can be used as a creative tool.**

### 3. THE POTENTIAL OF LASER CUTTING

Permeable, a creative studio, has worked for the communication of KLAP (a place dedicated to dance in Marseille) for 4 years. In the past season of the program, chapter headings made in volumes thanks to laser cutting then photographed. The process permitted to build this project.

Laser cutting work offered a wide and fascinating graphic delicacy. For example, in the fashion industry, designers can benefit greatly from these new technologies. The interface of this type of equipment allows designers to achieve precise cutting and engraving results they need to create some patterns or prototypes.

**Finally, laser cutting is a combination of traditional ways to create.**



*KLAP program.*



*The laser cutting work exhibition.*



*Some wood characters for the program.*

*DSAA DESIGN GRAPHIQUE*  
**ANAËLLE COUËLLAN**

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