



Make the Most of
3D Printing for
Architecture
Projects

Introduction

Additive Manufacturing (AM) can provide you with highly advanced architectural models.

Discover the **ultimate personalization** of 3D printing and **high complexity** of 3D printed models at **the best quality**.

In our ebook, you will also find other benefits of using 3D printing for architecture projects. Thanks to the latest innovations of AM, you can **speed up the production** of models, but also improve them by using **different 3D printing materials**.

Where to start? By the end of this ebook, you should have a clearer vision of why you should turn your amazing visualizations into 3D models with an online 3D printing service like Sculpteo. We will assist you through the whole process and answer all your questions.

Ultimate personalization

Almost anything you design on a computer can be 3D printed. This aspect of Additive Manufacturing (AM) makes it very attractive for architects to **3D print visualization models** for clients and competitions.

Making models traditionally, by hand, is time-consuming, and leaves a lot of room for mistakes, **3D printing eliminates the human error aspect**. If the concept of your model changes, you can **simply edit the 3D model** and 3D print it again.





Complexity

3D printing enables a **high level of detail**, sometimes unachievable with traditionally produced models. Not only that, you can **3D print the whole structure**, which is much faster than building the model piece by piece.

Additive Manufacturing gives you **the freedom to design complex geometries**, without worrying about how to assembly complicated models.

Quality

3D printing has come a long way from a geeky gadget to a real manufacturing technology. Now, you can reach an absolutely new level of quality. With modern 3D printing technologies such as Selective Laser Sintering or Jet Fusion, there is **no need for supports**, your model is ready to use, straight out of the printer.

Industrial 3D printers are capable of creating objects without visible layers. Technologies mentioned above are capable of **layer thickness as small as 60µm (0.06 mm)**. They are **highly precise and accurate**. With a clean white finish of Nylon PA12, your 3D printed architectural model would **highly resemble your concept**.

Your 3D printed model will also be **very durable**. Plastics for AM are strong and can last years, unlike paper materials for traditional models.

Faster production

Especially with complicated models, Additive Manufacturing will **speed up the production process** of your model. 3D visualizations of architectural concepts are a standard now and they can be very **easily optimized for 3D printing**.

Also, if your project changes, all you need to do is adjust the 3D file accordingly to your needs, which is usually not the case with traditionally manufactured models.





Materials

As already stated, AM gives you the best possibility of customization and personalization. That's not only thanks to the capabilities of the 3D printing process, but also **wide range of materials**.

If you would like to **showcase different areas** of the designed space, you can easily do it by using, for example, various colors. You can also print separate elements with different materials to **distinguish details**. Those options certainly help to visualize the future of the project.

However, if you're attending a contest your architectural model often needs to be clear and white. This is also where 3D printing comes in handy as your model will be **durable** and the white color **won't fade away** or become yellowish.

Where to start?

Don't worry if you don't have too much experience with AM. We want to share with you our expertise gained over the years partnering with architects.

We can optimize your 3D model for 3D printing, all you have to do is send us the 3D file and we will take care preparing it for production.

Our 3D printing experts can also help you choose the best material for your production, and design solutions to achieve the best quality products.



Toulouse la Cartoucherie - ilot 3.6b 136 appartements +
offices and activities (2018 contest - 1st prize)

MAKE YOUR BUSINESS THRIVE WITH 3D PRINTING

Access our
MasterClass resources
and develop your AM strategy



**Think additive & Gain
an adaptive advantage
for your business.**

Access to a one-stop-shop of resources to discover your Additive Advantage and develop a strategy that will **put game-changing technology into your hands**.

Use it to unlock the full potential of 3D printing, and:

- **Create room for innovation,**
- **Scale your production,**
- **Make adaptability one of your greatest strengths.**

We've compiled our best ebooks, playbooks, guides, and customers' stories, made for professionals who want new additive manufacturing opportunities ...all in one place.